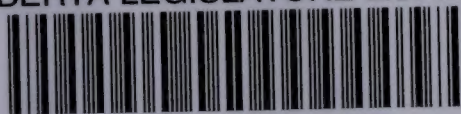


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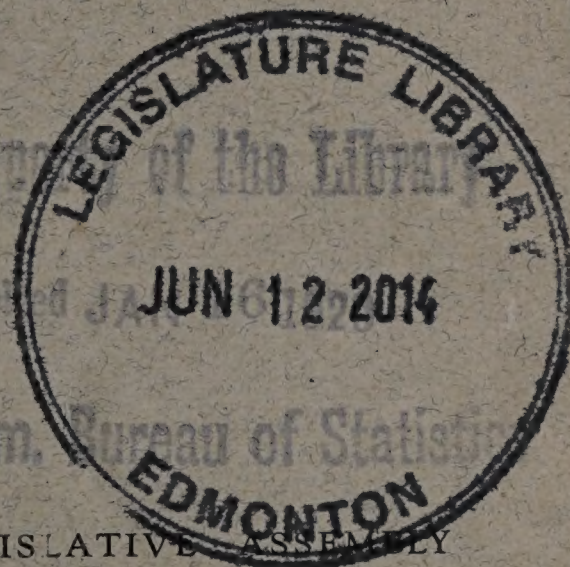
OF THE

DEPARTMENT OF PUBLIC WORKS

OF THE

PROVINCE OF ALBERTA

1918



PRINTED BY ORDER OF THE LEGISLATIVE ASSEMBLY



EDMONTON :

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1919



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REPORT
OF THE
MINISTER OF PUBLIC WORKS
FOR THE YEAR ENDING DECEMBER 31ST, 1918

EDMONTON, March 3, 1919.

To His Honour

ROBERT GEORGE BRETT,

Lieutenant Governor of the Province of Alberta.

May It Please Your Honour:—The undersigned has the honour to submit herewith the Report of the Department of Public Works for the year ending December 31st, 1918.

Respectfully submitted,

A. J. McLEAN,

Minister of Public Works.

REPORT

OF THE

DEPUTY MINISTER OF PUBLIC WORKS

HON. A. J. McLEAN,

Minister of Public Works.

SIR,—I have the honour to submit herewith the Report of the Department of Public Works for the year 1918.

The conditions under which work of any kind could be carried on during the past year have been most adverse, owing to the serious shortage and high price of material and labour. These adverse conditions have been commented upon each year during the existence of the war, and each succeeding year has seen the difficulties further increased. In view of these conditions, every possible endeavor has been made to avoid expenditure not absolutely required and to observe strict economy in those works which it was imperative that we should carry on.

HIGHWAYS.

The construction and maintenance of highways, including bridges and ferries, is work which must continue, and the largest expenditure was of course made in this branch of the department.

Only a comparatively small amount of new work was undertaken, and the chief effort was towards proper maintenance of what had already been constructed, this being the best policy from both standpoints of economy and service to the public.

The programme in bridge construction was light and was confined to timber structures.

Three new ferries were established, and the usual free ferry service continued throughout the year, and in fact, to a very late date, owing to the mild weather.

The report of the Engineer of Highways gives full details of the work carried on in connection with roads, bridges and ferries.

SURVEYS.

Closely connected with the work of the Highways Branch is that of the Surveys Branch of the Department. The rectangular system of subdivision adopted in the original surveys of the lands of the province, while admirable in many ways, is not so applicable to this portion of the western plains, which adjoins the mountains, as it is to the more purely prairie Provinces of Saskatchewan and Manitoba, for the reason that the road allowances are so frequently blocked by

natural obstacles. The demand for the location, survey and establishment of diversions from the original road allowances is accordingly very heavy.

The report of the Assistant Director of Surveys shows that though the period of field work was shorter than usual, the season was favorable and an exceptionally large amount of work was done. In spite of this fact there were many requests which could not be dealt with, and had to be carried over to next season. Detailed reports from the various surveyors show just what work was done.

DRAINAGE.

Work under The Alberta Drainage Act will soon be well under way in Drainage District No. 1, south of Holden. The contract for this work was let in August last, and machinery was on the ground and work commenced before freeze up. The coming summer should see this ditch well under way.

In Drainage District No. 6, near Viking, a smaller scheme than No. 1, contract has also been let and work should proceed in the spring, while in a number of other districts matters are reaching the stage where the works can be proceeded with if desired. The report of the Drainage Engineer gives full particulars.

MINES.

The Mines Branch report shows that there was a large output during the year 1918, that of the previous year being exceeded by over one million tons. A considerably larger amount of coal was shipped into the Provinces of Manitoba and Saskatchewan from Alberta than ever before, but there is doubtless a considerable quantity of coal being imported into Western Canada.

A gratifying feature in connection with the increased output is the fact that the number of fatal accidents was less than during 1917, the figures for the year being 22 fatal and 137 non-fatal accidents.

A new Mine Rescue Station was installed at Mountain Park and work in connection with these stations all over the province has been carried on in a satisfactory way.

Full details of this branch of the work will be found in the report of the Chief Inspector of Mines, which is also accompanied by a number of interesting tables giving statistics in regard to coal production and consumption.

BUILDING.

In the Architectural Branch the work undertaken was considerably in excess of that performed during any year since 1914.

A building to accommodate seventy-five male patients, and to be used as a sick and chronic ward, is being added to the hospital for the insane at Ponoka, and is now well under way towards completion. Work on this building was seriously delayed by the influenza epidemic.

A building to be used for legal offices was erected at Taber during the year, and is now occupied giving accommodation also to the Provincial Police at that point.

In addition to this new construction there was increased demand for architectural service from other departments of the Government in connection with rural schools, municipal hospitals, etc., as well as increased work in the maintenance of all provincial buildings, which is of course, constantly growing, as the number of such buildings increases.

The report of the Provincial Architect gives details of the work which was carried out.

STEAM BOILERS.

In the Steam Boilers Branch, the report of the chief inspector shows that in spite of the fact that as a result of the crop shortage at least thirty per cent. of the agricultural boilers were not in service, and consequently not available for inspection, and that the work in the fall was also much hampered by widespread quarantine regulations, nevertheless a good average year's work was accomplished.

The new Boilers Act, which was passed at the 1917 Session of the Legislature, has proved very satisfactory in operation, and I am pleased to be able to say that the past year has been remarkably free from accidents of any kind in connection with the operation of boilers. Alberta still has a clean sheet, with no fatal accidents of this nature to record.

PUBLIC INSTITUTIONS.

The reports from the Wardens of the gaols at Lethbridge and Fort Saskatchewan are most satisfactory, the returns from the gaol farms in an adverse year being very gratifying.

The report of the Hospital for the Insane at Ponoka shows most satisfactory operation, as does also the report of the Superintendent of the Hospital for Returned Soldiers at Red Deer, opened during the year.

ACCOUNTANT'S AND CORRESPONDENCE BRANCHES.

The reports of the Accountant's Branch and Correspondence Branch show increased work over 1917.

Brief mention has been made of the effect of the influenza epidemic on our work, and I desire here to draw attention to the splendid services rendered by many members of our staff during this outbreak in assisting and nursing the sick. Special mention in this connection should be made of the work of our general road foremen. These men, with the knowledge they possessed of their various districts, were of particular value in patrolling outlying territory and seeing that no one was lying sick and uncared for. Their self-sacrificing devotion to duty, when called upon for this work, is worthy of praise.

Serious outbreaks occurred at the Hospital for the Insane at Ponoka and at the Hospital for Returned Soldiers at Red Deer. At

the former institution especially the attack was virulent and the untiring efforts of the officials in charge of these institutions during this trying experience merit high commendation.

The happy termination of the war towards the close of the year promises the return of many of our employees safe and sound, to take up their old employment with us. Some have already returned, bearing honorable wounds, and are back at work. Some will never return to us, but they are not forgotten.

The following is our Roll of Honour :

Allan, Adam.	Lunn, H. A.
Armstrong, R.	Markes, A. E.
Baird, Harry.	McGee, W.
Batters, G. S. (killed in action).	McKay, Hugh (wounded and discharged).
Blakey, R. P. (discharged and returned to the service).	McLean, N. (discharged and returned to the service).
Brown, P. McL.	McNicoll, D. J. (wounded).
Calder, H. J.	Munro, W.
Cawsey, J. S.	Napper, T.
Coulson, R.	Pierce, J. S.
Craig, Tom.	Richardson, J.
Cross, Geo.	Robertson, E. D.
Dowe, W.	Ross, H. O. (killed in action).
Duncan, W.	Ross, J.
Duggan, John.	Seward, A. E.
Fago, Joseph.	Solway, W. C.
Fraser, James.	Stewart, A. G.
Garvin, C. O.	Todd, R.
Girvan, J.	Turton, W. H. (wounded, discharged and returned to the service).
Gray, Thomas.	Urquhart, D.
Hollingsworth, E.	Watson, James.
Jones, Caleb.	Williams, G.
Jones, J. E.	Winter, J.
Kinsman, J. (discharged and returned to the service).	Woods, S. B.
Laidlaw, James.	
Leighton, A. F.	

Respectfully submitted,

L. C. CHARLESWORTH,

Deputy Minister.

HIGHWAYS BRANCH

EDMONTON, February 17, 1919.

L. C. CHARLESWORTH, ESQ.,
Deputy Minister of Public Works,
Edmonton.

SIR,—I have the honour to submit herewith the report of the work performed by the Highways Branch of the Department of Public Works during the year ending December 31st, 1918.

The number of bridges dealt with during the year was 354; of these 185 were construction and 169 repairs. The following are a few of the larger structures completed and opened for traffic during the year.

Over the Beaver Lodge river, near Halcourt, one 60 foot timber truss and two 20 foot spans were constructed on pile substructure.

Over the Belly river at Standoff an old 90 foot steel span, which had been washed out, was salvaged and reconstructed on pile substructure, together with two 24 foot approaches.

Over the Bow river, south of Cluny, three 135 foot timber trusses and three 22 foot spans were constructed on pile substructure.

Over Bigstone Creek, north from Wetaskiwin, one 50 foot timber truss was constructed on concrete abutments.

Over Burnt river, east from Spirit river, one 60 foot timber truss and four 18 foot spans were constructed on pile substructure.

Over the Clearwater river, west from Raven, two 125 foot timber trusses and two 20 foot spans were constructed on pile substructure.

Over Knee Hill Creek, north-east from Acme, an 80 foot timber truss was constructed on pile substructure.

Over the Little Red Deer river, west of Innisfail, one 125 foot timber truss and two 20 foot spans were constructed on pile substructure.

Over the Little Red Deer river at Bituma, one 90 foot timber truss and two 16 foot spans were constructed on pile substructure.

Over the Medicine river near Eckville, one 80 foot timber truss and two 16 foot spans were constructed on pile substructure.

Over the Milk river at Ashes Crossing, one 125 foot timber truss was constructed on pile substructure.

Over the Oldman river at Maunsel, two 110 foot timber trusses were constructed on pile substructure.

Over the Oldman river at Brocket, two 125 foot timber trusses were constructed on pile substructure.

Over the Red Deer river, north from Duchess, five 100 foot timber trusses were constructed on pile substructure.

Over the Red Willow near Halcourt, one 135 foot timber truss and two 25 foot spans were constructed on pile substructure.

Over the Rosebud river at Rosedale, an old 100 foot steel span, purchased from the City of Calgary, was erected on pile substructure.

There was also a foot bridge, 350 feet in length, constructed over the James river near Lobley.

With reference to the construction and maintenance of roads, there was very little new work undertaken. An effort was made, however, to keep in good state of repair the roads already constructed. Our greatest difficulty during the season was in obtaining labour for this class of work.

The total number of ferries operated by the Government during the year was 70. In addition to these, there were 6 ferries located at points where the traffic was so light that it did not warrant the employment of an operator. These ferries were maintained by the Department, so that the people could operate them for their own convenience.

A full list of all the work undertaken by the Highways Branch appended hereto.

Your obedient servant,

J. D. ROBERTSON,

Engineer of Highways.

BRIDGES CONSTRUCTED OR RE-CONSTRUCTED IN 1918.

STREAM	LOCATION	SIZE AND CLASS OF BRIDGE
Andrews Creek -----	Tp. 78-13-5 -----	Log bridge.
Bow River -----	Tp. 20-20/21-4 -----	Three 135 ft. and three 22 ft. timber trusses.
Blackmud Creek -----	W. 36-50-25-4 -----	Three 20 ft. spans on piles.
Blindman River -----	N. 35-39-1-5 -----	One 80 ft. truss, two 20 ft. approaches.
Bear Creek -----	Bet. 12/13-1-10-4 -----	One 12 ft. frame bent.
Breed Creek -----	Bet. 27/28-1-10-4 -----	Two 20 ft. pile spans.
Breed Creek -----	Sec. 9-1-10-4 -----	Two 20 ft. pile spans.
Belly River -----	At Standoff -----	One 90 ft. steel span, two 24 ft. timber spans.
Bearberry Creek -----	Bet. 17/18-33-6-5 -----	Four 20 ft. pile spans.
Beaver Lodge River --	Sec. 7-71-9-6 -----	One 60 ft. timber truss, two 20 ft. approaches.
Burnt River -----	N.W. 11-78-4-6 -----	One 60 ft. timber truss, four 18 ft. approaches.
Beaver Creek -----	Sec. 3-6-2-5 -----	Two 16 ft. pile spans.
Battle River -----	Bet. 21/22-45-28-4 -----	One 16 ft. pile span, one 20 ft. pile span.
Bigstone Creek -----	Sec. 2-47-24-4 -----	One 50 ft. truss on concrete abutment.
Creek -----	Bet. 12/13-25-9-4 -----	One 12 ft. mud sills.
Creek -----	Bet. 13/14-25-9-4 -----	One 12 ft. mud sills.
Creek -----	Bet. 35/36-24-9-4 -----	One 12 ft. mud sills.
Creek -----	S.E. 34-67-24-4 -----	One 16 ft. span on piles.
Creek -----	Bet. 34/35-67-22-4 -----	Two 18 ft. spans on piles.
Crowfoot Creek -----	Bet. 5/31, 21/22-20-4 -----	Four 20 ft. spans on piles.
Creek -----	Bet. 31/32-21-21-4 -----	One 16 ft. span on piles.
Creek -----	N. of N.E. 31-24-20-4 -----	One 18 ft. span on piles.
Creek -----	N. of N.W. 31-24-20-4 -----	One 18 ft. span on piles.
Creek -----	Bet. 26/35-70-11-6 -----	Four 18 ft. and two 16 ft. spans on piles.
Creek -----	Sec. 36-26-1-5 -----	Four 20 ft. spans on piles.
Creek -----	Sec. 9-27-1-5 -----	One 20 ft. frame bent.
Creek -----	Bet. 10/15-1-24-4 -----	One 18 ft. span on piles.
Creek -----	Sec. 28-49-20-4 -----	One 18 ft. span on piles.
Creek -----	R. L. 15-46-21-4 -----	One 14 ft. frame bent.
Creek -----	W. of 4-47-21-4 -----	One 10 ft. mud sills.
Creek -----	Sec. 5-42-21-4 -----	One 12 ft. frame bent.
Creek -----	Sec. 5-42-21-4 -----	One 12 ft. frame bent.
Creek -----	N. of 36-43-19-4 -----	One 12 ft. frame bent.
Creek -----	S.W. 13-29-23-4 -----	Four 20 ft. spans on piles.
Creek -----	N.W. 35-29-25-4 -----	One 80 ft. Howe truss.
Creek -----	N.E. 5-55-14-5 -----	Log bridge.
Creek -----	N.W. 21-76-14-5 -----	Log bridge.
Creek -----	Bet. 9/16-26-23-4 -----	Two 20 ft. spans on piles.
Creek -----	N. 31-27-23-4 -----	One 12 ft. span on piles.
Creek -----	Bet. 14/15-25-24-4 -----	One 12 ft. span on piles.
Creek -----	Bet. 8/17-23-22-4 -----	One 20 ft. span on piles.
Crowfoot Creek -----	Sec. 29-29-22-4 -----	Two 20 ft. spans on piles.
Creek -----	Bet. 20/29-30-26-4 -----	One 16 ft. span on piles.
Creek -----	Bet. 28/29-30-16-4 -----	One 16 ft. span on piles.
Creek -----	Bet. 19/20-30-16-4 -----	One 16 ft. span on piles.
Creek -----	Sec. 7-28-18-4 -----	Two 20 ft. spans on piles.
Creek -----	Sec. 9-29-20-4 -----	One 20 ft. span on piles.
Creek -----	N.W. 22-29-19-4 -----	Two 18 ft. spans on piles.
Creek -----	N.W. 31-29-18-4 -----	One 20 ft. span on piles.
Clearwater River -----	W. of 18-36-6-5 -----	Two 125 ft. and two 20 ft. Howe trusses.
Creek -----	N. 32-36-2-5 -----	One 20 ft. span on piles.
Creek -----	Bet. 19/20-35-3-5 -----	One 20 ft. span on piles.
Creek -----	Bet. 29/25-36-3-5 -----	One 16 ft. span on piles.
Creek -----	Bet. 7/8-36-2-5 -----	One 16 ft. span on piles.
Creek -----	Bet. 28/29-12-21-4 -----	One 16 ft. span on piles.
Creek -----	Bet. 14/15-12-21-4 -----	One 14 ft. span on piles.

STREAM	LOCATION	SIZE AND CLASS OF BRIDGE
Creek	Bet. 26/27-56-9-5	One 54 ft. frame bent.
Creek	W. of 30-56-6-5	Eight 20 ft. pile spans.
Creek	S.W. 19-48-26-4	Two 18 ft. pile spans.
Creek	N.W. 19-48-26-4	Two 18 ft. pile spans.
Creek	N.W. 19-48-26-4	Two 18 ft. pile spans.
Creek	Bet. 19/20-50-1-5	Three 18 ft. pile spans.
Creek	E. of 3-51-3-5	One 18 ft. pile span.
Creek	E. of 22-50-3-5	One 18 ft. pile span.
Creek	E. of 15-49-3-5	One 18 ft. pile span.
Creek	Bet. 29/32-47-24-4	Two 20 ft. pile spans.
Catchem Creek	E. of 16-4-6-4	Two 20 ft. pile spans.
Creek	Bet. 17/18-15-29-4	One 20 ft. pile span.
Creek	W. of 19-14-29-4	Three 16 ft. pile spans.
Creek	Sec. 33-14-29-4	One 20 ft. pile span.
Creek	Sec. 11-14-30-4	Two 16 ft. pile spans.
Creek	E. of 25-22-3-5	Dam and culvert.
Creek	Bet. 2/3-22-2-5	Two 20 ft. pile spans.
Creek	Bet. 16/17-34-22-4	One 20 ft. pile span.
Creek	Bet. 3/4-6-30-4	One 20 ft. pile span.
Creek	Bet. 9/16-6-29-4	One 16 ft. frame bent.
Creek	S.W. 23-8-29-4	Subway.
Creek	Bet. 5/6-59-25-4	Two 20 ft. frame bents.
Creek	Bet. 27/28-57-5-5	One 16 ft. crib abutment.
Creek	Bet. 27/28-57-5-5	One 17 ft. crib abutment.
Creek	Bet. 15/16-57-5-5	One 16 ft. crib abutment.
Creek	R. L. 10-78-5-6	Two 18 ft. pile spans.
Creek	E. of 14-78-22-4	One 20 ft. pile span.
Creek	Bet. 9/16-74-7-6	One 12 ft. frame bent.
Canyon Creek	Sec. 14-6-2-5	Two 16 ft. pile spans.
Creek	N.E. 25-6-3-5	One 18 ft. pile span.
Creek	N. of 9-13-7-4	One 16 ft. pile span.
Creek	E. of 36-13-7-4	One 16 ft. pile span.
Creek	S.W. 1-55-1-4	Pile spans.
Creek	Sec. 32-55-2-4	One 16 ft. pile span.
Creek	In 17-56-3-4	No description.
Creek	N.W. 32-55-2-4	One 16 ft. pile span.
Creek	Sec. 8-36-17-4	Five 16 ft. pile spans.
Creek	E. of 1-39-22-4	One 16 ft. frame bent.
Creek	N.E. of 34-51-26-4	Driving Piles.
Creek	Bet. 15/16-53-27-4	Driving Piles.
Creek	Sec. 35-51-26-4	Driving Piles.
Creek	Bet. 10/11-9-19-4	Two 18 ft. pile spans.
Coulee	N.W. 28-11-19-4	Dam.
Creek	Bet. 32/33-8-15-4	One 16 ft. pile span.
Creek	Bet. 26/27-49-13-4	One 16 ft. pile span.
Creek	Bet. 25/26-49-15-4	One 16 ft. pile span.
Creek	N.W. 8-2-17-4	One 20 ft. pile span.
Creek	N.W. 12-2-18-4	One 20 ft. pile span.
Creek	E. of 13-5-12-4	Two 20 ft. pile spans.
Creek	Sec. 15-6-17-4	One 16 ft. pile span.
Creek	S.W. 2-1-11-4	One 20 ft. pile span.
Creek	N. of 34-44-2-5	One 20 ft. and two 10 ft. pile spans.
Creek	E. of 9-46-26-4	One 18 ft. pile span.
Creek	Bet. 21/22-47-26-4	One 16 ft. pile span.
Creek	E. of 16-47-26-4	Two 16 ft. pile spans.
Creek	Bet. 9/16-46-26-4	One 16 ft. pile span.
Dog Pound Creek	Bet. 14/15-31-3-5	Two 18 ft. spans on piles.
Dead Fish Creek	Bet. 21/28-23-13-4	Four 20 ft. spans on piles.
Dickson Creek	Bet. 23/24-36-2-5	One 20 ft. span on piles.
Deer Creek	W. of 31-7-6-5	One 20 ft. pile span.
Dry Fork Creek	Sec. 36-4-30-4	One 20 ft. pile span.
Easthill Creek	S.E. of 28-39-4-5	One 16 ft. addition.
Expanse Coulee	N. of 11-12-16-4	One 20 ft. span on piles.
Fish Creek	Bet. 3/4-22-3-5	Three 20 ft. spans.
Gull Creek	Tp. 108-13-5	One 60 ft. pile trestle.
Gooseberry Creek	Bet. 22/23-36-6-4	Four 16 ft. spans on piles.

STREAM	LOCATION	SIZE AND CLASS OF BRIDGE
Horse Creek -----	Tp. 79-12-5 -----	Log bridge.
Horseguard Creek -----	Bet. 12/13-39-5-5 -----	One 20 ft. and two 16 ft. pile spans.
Indian Farm Creek ----	Bet. 9/16-6-29-4 -----	Two 16 ft. pile spans.
James River -----	Bet. 23/24-34-6-5 -----	One 350 ft. foot bridge.
Little Pine River -----	Bet. 8/9-74-6-6 -----	Three 18 ft. pile spans.
Little Stone Creek -----	Bet. 10/15-46-27-4 -----	One 20 ft. pile span.
Little Stone Creek -----	Bet. 12/13-46-27-4 -----	One 20 ft. pile span.
Little Stone Creek -----	Bet. 11/14-46-27-4 -----	One 20 ft. pile span.
Mecheche Creek -----	N.W. ¼ 11-29-20-4 -----	One 40 ft. timber truss
At Magnolia -----	Bet. 19/20-53-6-5 -----	One 20 ft. pile span.
Manyberries Creek ----	E. of 28-4-6-4 -----	One 8 ft., one 16 ft. and one 18 ft. pile spans.
Manyberries Creek ----	E. of 21-4-6-4 -----	One 20 ft. pile span.
Milk River -----	S.E. 3-2-13-4 -----	One 125 ft. Howe truss.
Miners Coulee -----	S.E. of 26-1-11-4 -----	One 20 ft. pile truss.
Matgiwan Creek -----	Bet. 35/36-16-4 -----	One 12 ft. frame bent.
Medicine River -----	Bet. 10/15-39-3-5 -----	One 80 ft. timber truss and two 16 ft. approaches.
Oldman River -----	Bet. 15/16-7-29-4 -----	Two 110 ft. timber trusses.
Paddle River (north) --	Bet. 35/36-57-9-5 -----	Two 20 ft. spans on piles.
Paddle River -----	Bet. 23/36-57-7-5 -----	Log bridge.
Paddle River -----	E. of 25-56-9-5 -----	Three 18 ft. spans on piles.
Paddle River -----	Sec. 16-57-7-5 -----	Log bridge.
Paddle River -----	W. of 6-57-7-5 -----	One 60 ft. and one 20 ft. truss repairs.
Little Paddle River --	Bet. 25/30-57-7/8-5 -----	Three 20 ft. spans on piles.
Pipestone Creek -----	Sec. 21-47-24-4 -----	Two 16 ft. pile spans.
Red Deer River -----	Bet. 13/14-23-1-4 -----	Two 135 ft. and two 107 ft. and two 100 ft. Howe trusses on piles.
Rosebud River -----	S.E. 7-28-19-4 -----	One 60 ft. and one 20 ft. pile span.
Rosebud River -----	N.E. 7-28-19-4 -----	One 50 ft. and span on piles.
Rosebud Creek -----	S.W. 28-28-19-4 -----	One 100 ft. steel span on piles.
Red Willow River -----	Bet. 25/30-70, 10/11-6 -----	One 135 ft. and two 20 ft. Howe trusses.
Red Deer River -----	Sec. 9-22-14-4 -----	Five 106 ft. Howe trusses.
Red Deer River -----	Bet. 35/36-1-5 -----	One 125 ft. and two 20 ft. Howe trusses.
Raven River (north branch) -----	Bet. 35/36-5-5 -----	Two 18 ft. spans on piles.
Rodberg Creek -----	Bet. 23/24-46-23-4 -----	One 20 ft. (temporary) span.
Servicebury Creek -----	Bet. 22/23-26-23-4 -----	Two 20 ft. spans on piles.
Six Mile Coulee -----	Tp. 8-21-4 -----	Trestle bridge.
Strawberry Creek -----	W. of 32-48-3-5 -----	One 20 ft. pile span.
Seven Persons Creek --	Bet. 12/13-10-7-4 -----	Two 16 ft. pile spans.
Seven Persons Creek --	Bet. 33/34-11-6-4 -----	Three 20 ft. pile spans.
Spruce Creek -----	Bet. 19/30-72-6-6 -----	Two 20 ft. pile spans.
Spruce Creek -----	N.W. 6-73-6-6 -----	Two 20 ft. pile spans.
Spirit River -----	R.L. 2/3-78-6-6 -----	Four 20 ft. pile spans.
Sturgeon River -----	Bet. 12/13-56-23-4 -----	One 80 ft. pile span.
Tail Creek -----	Bet. 23/26-39-22-4 -----	Three 20 ft. pile spans.
Vermilion River -----	Bet. 23/26-58-26-4 -----	One 20 ft. and one 12 ft. crib abutments.
Vermilion River -----	Bet. 31/32-51-4-4 -----	Three 20 ft. spans on piles.
Wolf Creek -----	Bet. 10/11-32-18-4 -----	One 16 ft. frame bent.
Whitecourt River -----	Sec. 35-59-12-5 -----	Four 20 ft. spans on piles.
Waskasoo Creek -----	N. of 31-36-27-4 -----	Two 12 ft. frame bents.

BANK PROTECTION.

Red Deer River -----	McDougal's Crossing -----	Driven piles and rocks.
Red Deer River -----	At Drumheller -----	Rock filling.

MAINTENANCE OF BRIDGES, 1918.

Arrowhead Creek	East $\frac{1}{2}$ of 1-23-3-5.
Bow River	3-21-19-4.
Belly River	S.E. 10-4-27-4.
Belly River	5-5-26-4.
Battle River	R.L. 3-27-46-21-4.
Belly River	At Lethbridge.
Blindman River	20/29-39-28-4.
Bullhead Creek	S.E. 16-12-5-4.
Battle River	13-46-7-4.
Branch of Battle River	5/6-46-23-4.
Bigstone Creek	N.E. 7-46-25-4.
Buck Creek	3-47-6-5.
Bigstone Creek	2-47-24-4.
Creek	35-45-3-4.
Creek	25/26-51-3-4.
Creek	33/34-67-24-4.
Crowfoot Creek	N.W. 17-23-20-4.
Creek	S.E. $\frac{1}{4}$ 19-23-20-4.
Creek	N.E. $\frac{1}{4}$ 34-22-20-4.
Creek	13-14-26-1-5.
Creek	1-25-2-5.
Creek	N. $\frac{1}{2}$ 28-61-5-5.
Creek	N.W. $\frac{1}{4}$ 12-3-28-4.
Creek	19-1-26-4.
Creek	32/4, 2/3-26-4.
Creek	26/27-13-29-4.
Creek	5-26-6-5.
Creek	1/36, 28/29-3-5.
Creek	N.E. 8-29-3-5.
Creek	34-21-4.
Creek	36-50-25-4.
Creek	15-26-23-4.
Crowfoot Creek	5-24-22-4.
Creek	16-26-23-4.
Creek	10-27-22-4.
Creek	26/27-29-19-4.
Creek	11-29-20-4.
Creek	S.W. 14-29-20-4.
Creek	S.E. 14-29-20-4.
Creek	5/8-19-27-4.
Creek	N.W. $\frac{1}{4}$ 17, S.W. $\frac{1}{4}$ 18-36-1-5.
Creek	34/35-54-7-5.
Creek	21/22-49-24-4.
Creek	31-49-26-4.
Creek	24/25-49-26-4.
Creek	S.E. 31-38-23-4.
Creek	29-2-10-4.
Creek	10-9-26-4.
Creek	17/18-8-25-4.
Creek	32-6-25-4.
Creek	18/19-16-28-4.
Creek	N.E. $\frac{1}{4}$ 32-21-25-4.
Creek	S.E. $\frac{1}{4}$ 32-21-25-4.
Creek	10/11-20-25-4.
Creek	12/13-20-25-4.
Creek	28/29-3-29-4.
Creek	S.W. 21-2-29-4.
Creek	N.E. 21-2-29-4.
Creek	31/32-83-22-5.
Creek	East 14-78-22-5.
Clearwater River	32-37-6-5.
Crow's Nest Pass River	36-7-4-5.
Creek	28/29-13-6-4.
Creek	S.W. 35-37-14-4.
Creek	21/22-6-20-4.
Coulee	9/16-6-20-4.

Creek	4/5-6-20-4.
Creek	18-5-12-4.
Creek	3/4-47-23-4.
Creek	S.E. $\frac{1}{4}$ 29-46-23-4.
Creek	29/30-46-25-4.
Creek	12/13-47-26-4.
Creek	16/17-47-26-4.
Creek	S.E. $\frac{1}{4}$ 13-46-2-5.
Creek	24-46-26-4.
Creek	N.W. $\frac{1}{4}$ 13-46-2-5.
Creek	N.W. $\frac{1}{4}$ 14-46-2-5.
Creek	S.W. $\frac{1}{4}$ 23-46-2-5.
Deep Creek	31/32-58-23-4.
East branch of Nose Creek	35/36-25-1-5.
Eight Mile Creek	5-49-26-4.
Fish Creek	East $\frac{1}{2}$ 1-23-3-5.
Fish Creek	22-22-3-5.
South Fork of Fish Creek	22-22-3-5.
Frog Creek	8-56-3-4.
Hang Stone Creek	Near Ft. McMurray.
Hudson Bay Creek	5-49-2-5.
Heart River	At Peace River Crossing
Irrigation Ditch	13-9-26-4.
Irrigation Canal	N.W. $\frac{1}{4}$ 17-9-19-4.
Kneehill Creek	7/12-34, 26/27-4.
Little Bow River	18-17-26-4.
Leduc Creek	N.E. 27-49-25-4.
Little Bow River	32-13-23-4.
Little Bow River	5-15-21-4.
Little Bow River	S.E. $\frac{1}{4}$ 5-15-21-4.
Little Bow River	27/28-14-25-4.
Little Bow River	12/13-15-26-4.
Little Bow River	30-12-19-4.
Matzewan Creek	5-22-14-4.
Mosquito Creek	21/22-16-28-4.
Mosquito Creek	15-16-28-4.
Mosquito Creek	N.W. $\frac{1}{4}$ 24-15-27-4.
Mosquito Creek	12/13-16-28-4.
Mosquito Creek	14/15-16-28-4.
Mosquito Creek (south branch)	23-6-1-5.
Mill Creek	S.W. 7-6-1-5.
Milk River	S.E. 3-2-13-4.
Narrows of Dry Lake	N.W. 22-33-3-4.
Narrows of Lesser Slave Lake	At Grouard.
Nanton Creek	20/21-16-28-4.
Old Channel of Elbow River	4/5-22-4-5.
Oldman River	S.W. 17-7-28-4.
Over Six Mile Coulee	10-8-21-4.
Oldman River	12-10-17-4.
Pine Creek	W. 31-66-19-4.
Pine Creek	6-66-20-4.
Pine Creek	W. 13-27-26-4.
Pine Creek	4/5-22-1-5.
Pincher Creek	8-7-28-4.
Pembina River	3/34, 59/60-27-4.
Pembina River	S.W. 11-58-3-5.
Pembina River	4/9-60-1-5.
Pipestone Creek	24-47-24-4.
Red Deer River	13/14-23-1-4.
Rosebud River	5/32, 28/29-27-4.
Rosebud River	12/13-28-29-4.
Rosebud Creek	26-30-1-5.
Rosebud Creek	12/13-30-29-4.
Rosebud River	12/13-28-27-4.
Rosebud River	22-28-27-4.
Red Deer River	11-29-20-4.
Ross Creek	N.E. 1-11-3-4.
Red Deer River	N. 36-33-5-5.
Ross Creek	14/15-53-19-4.
Ross Creek	14/11-53-19-4.

Spring Creek	19/20-26-1-5.
St. Mary's River	Near mouth of Lees Creek.
Silver Creek	19/30-42-20-4.
Sucker Creek	31/1, 6/1, 29/30, 2/3-4.
South Fork of High River	14-17-2-5.
Seven Persons Creek	28/29-10-7-4.
Six Mile Coulee	5-8-25-4.
South Fork of Oldman River	2-7-1-5.
Spirit River	Br. 48/49, Spirit River Settlement.
Spirit River	R.L. 48/49-18-6-6.
Spirit River	West of Spirit River.
Sturgeon River	12/13-56-23-4.
Sturgeon River	East 29-55-22-4.
Spring Creek	S.E. 5-56-20-4.
Sandstone Creek	8/17-1-12-4.
Twelve Mile Coulee	29/30-10-21-4.
Tail Creek	7/30, 39/40-22-4.
Whitemud Creek	30/31-49-28-4.
Whitemud Creek	6/31, 48/49-25-4.
Whitemud River	19/20-49-25-4.
Weed Creek	9/16-49-1-5.
Weed Creek (branch)	10/15-49-1-5.

BRIDGES CONSTRUCTED BY THE DEPARTMENT IN 1918 IN
ADMINISTRATION OF M.D. TRUST FUNDS.

Bridge between 20/21-24-1-4	One 20 ft. span.
Bridge S.W. 6-25-20-4	One 20 ft. span.
Bridge S.E. 6-25-20-4	One 16 ft. span.
Bridge north of 10-1-24-4	One 18 ft. span.
Bridge west of 19-1-23-4	One 18 ft. span.
Bridge Sec. 11-1-26-4	Repairs.
Bridge Sec. 16-3-26-4	Repairs.
Bridge Sec. 12-1-27-4	Repairs.
Bridge Sec. 13-1-27-4	Repairs.
Bridge Sec. 19-1-26-4	Reflooring.
Bridge N.E. of 13-62-7-5	One 80 ft. Howe truss.
Bridge Sec. 29-29-5-5	One 125 ft. Howe truss.
Bridge between 22/23-36-6-4	Four 16 ft. spans.
Bridge between 4/15-35-6-4	No description.
Bridge north of 34-30-5-5	One 18 ft. piles.
Bridge between 2 and 3-31-5-5	Reflooring.
Bridge between 5/6-24-22-4	One 18 ft. span.
Bridge north of 11-24-23-4	One 20 ft. span.
Bridge north of 12-24-23-4	One 18 ft. span.
Bridge north of 11-1-2-8	One 16 ft. span.
Bridge east of 18-1-1-4	One 12 ft. span and one 18 ft. span.
Bridge east of 21-4-6-4	One 20 ft. span.
Bridge north of 12-1-10-4	One 12 ft. span.
Bridge southeast of 28-1-10-4	Two 20 ft. spans.
Bridge northwest of 9-1-10-4	Two 20 ft. spans.
Bridge north of 7-6-6-4	Repairs.
Bridge east of 28-4-6-4	Two 20 ft. spans.
Bridge east of 16-4-6-4	Two 20 ft. spans.
Bridge north of 31-7-6-4	One 20 ft. span.
Bridge east of 24-7-8-4	Repairs.
Bridge Sec. 1-11-6-4	Three 20 ft. spans.
Bridge between 20/29-10-7-4	Repairs.
Bridge north of 12-10-7-4	Repairs.
Bridge between 12/13-10-7-4	Repairs.
Bridge between 17/18-15-29-4	One 20 ft. span.
Bridge Sec. 33-14-29-4	One 20 ft. span.
Bridge west of 19-14-29-4	Three 16 ft. spans.
Bridge Sec. 11-14-30-4	Three 16 ft. spans.
Bridge east of 6-74-6-6	Repairs.
Bridge Sec. 8-74-6-6	Three 18 ft. spans.
Bridge north of 9-13-7-4	One 16 ft. span.
Bridge east of 36-13-7-4	One 16 ft. span.

Bridge between 15/16-63-5-5 -----Subway.
 Bridge southeast of 20-6-20-4 -----No description.
 Bridge northwest of 28-11-9-4 -----One 20 ft. span.
 Bridge north of 11-12-16-4 -----One 20 ft. span.
 Bridge west of 7-5-15-4 -----One 12 ft. span.

MAIN HIGHWAYS.

Calgary to Edmonton.
 Deville to 3 miles north of Uncas.
 Cardston to Magrath.
 Edmonton to Fort Saskatchewan.
 Edmonton to Seba.
 South Cooking Lake Trail.
 Deville to South Cooking Lake.
 West Salisbury to one mile north of Uncas.
 Calgary to Macleod.
 Calgary to Gleichen.
 Gleichen to Cluny.
 Cluny to Bassano.
 Lethbridge to Macleod.
 Nevis to Castor.
 Calgary to Banff.
 Medicine Hat to Seven Persons.
 Clyde west to Campsie.
 New Dayton to Warner.
 Alderson east.
 Alderson to Brooks.
 St. Albert to Clyde.
 Suffield north.
 Edmonton to Athabasca.
 Lacombe east.
 Between Cardston and Waterton Lake.
 Fort Saskatchewan to Chipman.
 From Mirror south to Content.
 From Taber east.
 East and west of Camrose.
 From Chinook east.
 Leading east from Stanmore.
 From Compeer leading west.
 Beaver Crossing and Cold Lake.
 Rife to Cold Lake.
 Brooks to Bassano.
 Mundare east to Lloydminster.
 Between Vegreville and Duvernay.
 Vulcan to Lake McGregor.
 Leading to Holmes Crossing.
 Southeast from Hardisty to Hayter.
 Daysland to Strome.
 From Waterton Lake northeast.
 East and west of Beiseker.
 Between Warner and Milk River.
 New Dayton north and west.
 Blairmore to Crow's Nest Pass.
 Crow's Nest Pass Trail, Frank to Lundbreck.
 From Rife to Flat Lake.
 South of Chipman.
 West from Macleod.
 West of Vegreville.

ORDINARY ROADS, 1918.

East 4 to 33, 29/30-7-4. Improvement of road.
 Between 2/3, 34/35, 27 to 30-4-4. Grading and repairing road.
 East 5 to 32-30-2-4. Filling slough.
 Empress Bridge to 35/36-23-1-4. Improvement of road.
 North of Excel. Construction of road.

South of Islay. Grading and repairing road.
 West through 47-50-3-4. Culverts and grading road.
 North of Kitscoty to Ferry. Improving road.
 North 31-67-24-4. Grading road.
 East 2 to 23-66-24-4. Improving road.
 East 6/31-67-23-4. Clearing, grading and small bridge.
 Between 7/8-67-20-4. Repairing road.
 East 5 to 32-67-21-4. Improving road.
 West 3-10-15-22-66-19-4. Grading road.
 South 1 to 5-66-22-4. Ditching.
 Athabasca Landing to Lake Baptiste. Clearing, ditching and small bridge.
 East of Athabasca. Improvement of road.
 West and North 7-8-9-15-22-66-23-4. Grading with grader.
 4/5, 8/9, 65-20-4. Improvement of road.
 Lots 1 to 9-67-24-4. Clearing, grading, cutting down hill and small bridge.
 South 16, east 17/20, 29/32-67-22-4. Improving road.
 Lac La Biche to Athabasca Landing. Repairing bridge and grading road.
 Athabasca to Slave Lake. Improving road.
 North of Athabasca. Grading road.
 North 65-23/24-4. Improving road.
 Between 14/15, 22/23-67-24-4. Grubbing road.
 East 17/32-65-22-4. Improving road.
 Fort Vermilion to Hay River. Clearing road.
 North and South through centre of 109-5-5. Opening and improving road.
 Vermilion to Buffalo Lake Trail. Improving road.
 Between 66/67-22-4. Clearing and grading road.
 East of 26-35-58-11-4. Improvement of road.
 Victoria to Lac La Biche. Grading and clearing road.
 North 7/8, 9/10-61-9-4. Improvement of road.
 North 21-28-61-9-4. Improvement of road.
 St. Leon to Grandin. Grading road.
 Between 5/6, 7/8, 60-10-4. Clearing road.
 Between 26/27-60-10-4. Improvement of road.
 North of 10/11-60-10-4. Grading road.
 South 21/28-56-12-4. Improvement of road.
 North and East of 34-55-12-4. Repairing road.
 North of 4/5-58-10-4. Improvement of road.
 North and East of 18, South of 17, East of 8-59-10-4. Grading road.
 Between 19/30, to 24/25-58-9-10-4. Clearing and improving road.
 East of 6-59-11-4. Improvement of road.
 Between 5/6, to 31/32-59-16-4. Grading road.
 West of 17/20-60-17-4. Improvement of road.
 St. Paul to Brosseau. Clearing road.
 East 23-60-9-4. Improving road.
 Between 60/61, 8/9-4. Clearing road.
 Between 28/29-58-10-4. Grading and repairing road.
 Between 13/14 to 35/36-67-16-4. Improvement of road.
 Between 27/34-67-16-4. Grading road.
 From Millicent north to Red Deer river. Filling slough and 2 culverts.
 South 3 to 6-18-18-4. Improvement of road.
 Kinnondale to Brosseau. Filling slough and low places.
 Between Gem and Countess. Grading road.
 Through 21 to 24-14-18-4. Improvement of road.
 Between 19/20-24-21-4. Clearing and repairing road.
 Cluny to Milo. Improving road.
 Between 14/15-22-29-4. Grading road.
 West of 4 to 33-60-2-5. Clearing and grading.
 North of 34-61-3-5. Improving road.
 North of 22/23-60-3-5. Grading road.
 Road to Mellowdale. Improvement of road.
 Edson Trail from House River. Repairing road.
 North 32-60-5-5. Leveling road.
 North 24-70-8-6. Clearing and repairing road.
 West 32-70-8-6. Improvement of road.
 North of 25 to 30-70-11-6. Repairing road.
 East of 11 to 35-33-11-4. Filling in road across a flat.

Cardston to Aetna. Improvement of road.
Mountain View to Timber. Grading approaches.
Up Lees Creek to Leavitt. Leveling road.
Road to Olive Crossing. Grading approaches to subway.
Between 19/24-10-27-28-4. Improvement of road.
North of 31 to 36-27-1-2-5. Fixing road.
Road south of Cochrane. Improvement of road.
Calgary to Morleyville. Grading road.
Milford to Dogpond Creek. Improvement of road.
Between 1/2, 11/12-27-1-5. Filling, grading and placing culverts.
West of 22/34-47-20-4. Grading road.
East of Camrose 46/47, 18/19-4. Repairing road.
North of Camrose 47 to 50-20-4. Improvement of road.
South of Camrose 42 to 46-21-4. Grading road.
North of Daysland. Improvement of road.
South of Daysland. Improvement of road.
Mundare to Bawlf. Grading road.
South of Bawlf. Improving road.
East from Round Hill. Repairing and constructing road.
Ohaton to Meeting Creek and south. Grading side hills.
West 29/32-50-20-4. Grading small hills.
West of 49-20-4. Improving road.
West of 1 to 36-48-21-4. Clearing and filling sloughs.
West of 3 to 34-47-16-4. Grading and clearing.
Between 7/8, 17/18, 19/20-43-19-4. Improvement of road.
West of 17/20-48-21-4. Grading and repairing road.
Between 5-43-19-4. Improvement of road.
West of 22-27-34-42-16-4. Repairing road.
South of 33-4-5. Grading with slushers.
South of 1-2-3-33-5-5. Grading with slushers.
Between 52/53, 19/20/21-4. Grading road.
Beaumont to Strathcona. Constructing road.
Between 32/33-53-17-5. Improvement of road.
Peers to McLeod River. Constructing road.
Peers to Wolf Creek. Grading road.
West of 9-16-21-53-13-5. Repairing road.
Between 10/11-53-18-4. Grading road.
North 2/3, 4/8-55-14-5. Grading road.
West of 7-53-16-5. Repairing road.
West of 3-10/15, 22/27-34-53-13-5. Improvement of road.
Wolf Creek to Carrot Creek east. Improvement of road.
Between 21/28-53-17-5. Grading road.
Edson Trail from House River north. Improvement of road.
Between 12/13-56-14-5. Repairing road.
West of 1/12, 24-53-17-4. Improving road.
West of 78-21-5. Repairs to road.
Road along Whitefish Lake. Improving trail.
East of 6 to 31-78-20-5. Grading road.
East of 4/33, 77/78-21-5. Improvement of road.
Through 22/23-27-32-33-80-25-4. Grading and repairs.
Wabusca to Lesser Slave Lake. Improvement of road.
Gleichen south through Blackfoot Reserve. Repairing grade.
North 32/34-23-26-4. Improvement of road.
36-26-27-4. Grading repairs to road.
Between 31/32-25-26-4. Improvement of road.
In 12-13-14-29-20-4. Repairing road.
East of Munson. Improvement of road.
East of 19 to 31-31-16-4. Grading repairs to road.
East and North of Hanna. Improvement of road.
3-4-9-22-12-4. Improvement of hill.
North of Deadlodge and Ferry. Grading road.
12-33-22-4. Improvement of road.
Between 27/34-18-2-5. Grading and ditching.
West of Innisfail. Improvement of road.
East of Innisfail. Repairs to road.
West of Innisfail. Filling approaches to bridge.
Between 21/22, 27/28-35-2-5. Improvement of road.
East of 24-35-27-4. Grading.
Between 25/30-36-27-28-4. Ditching.
In 32-36-28-4. Cutting down each side of bridge.

Between 1/2, 11/12, 13/14-39-4-5. Clearing, grubbing and grading.
 East of 25-35-3-5. Corduroy, grading and ditching.
 North of 19-20-21-17-19-4. Improvement of road.
 North of 19/22, 20/23, 21/24-12-20-21-4. Repairs to road.
 West of 13 to 36-17-19-4. Filling sloughs.
 North and south through centre of 13/14-21-4. Culvert, grading and scraping road.
 North of 16-18-19. Filling slough.
 Between 10/15-11-24-4. Grading road.
 North of 17/18, 21/24-16-19-4. Improvement of road.
 Carmangay east to Little Bow River. Repairs to road.
 West of 7/18-15-21-4. Improvement of road.
 East and West of Bow City. Grading and repairing road.
 East of 13-17-20-4. Filling low places.
 Work done on approaches to Entwistle Ferry.
 Lac Ste. Anne to Paddle River. Repairs to road.
 St. Albert to Lac Ste. Anne. Reviewing culverts and general repairs.
 West of 55-56-57, 2/3-5. Improvement of road.
 East of 28/33-55-4-5. Grading and ditching and small bridge.
 Lac Ste. Anne to Island Lake. Improvement of road.
 North and South of Onoway to Carvell. Grading and repairs.
 North of 7 to 12-58, 5/7/8-5. Laying and covering culverts.
 West of Rochfort. Ditching and culverts.
 Between 54/55-11-5. Ditching.
 White Whale Lake to Lac Ste. Anne. Grading road.
 Between 34/35-54-7-5. Improvement of road.
 East and West of Saron. Grubbing out stumps.
 West of Leduc. Improvement of road.
 South of 27-48-3-5. Repairs to road.
 Millet west to Bonnie Glen. Repairing and dragging road.
 East of Leduc. Covering corduroy and grading.
 North and East of 27-47-26-4. Improvement of road.
 West of 12-48-23-4. Grading road.
 East of 28-48-27-4. Improving road.
 North of 11-49-25-4. Grading road.
 Between 5/6, 31/32-50-26-4. Improving road.
 North of 7/8/9-48-24-4. Concrete culvert.
 East of Millet. Grading and repairs.
 Between 4/5-50-26-4. Improvement of road.
 North of 22-50-23-4. Repairing road.
 East of 33-47-24-4. Improvement of road.
 West of 26-48-26-4. Grading.
 West of 30-49-26-4. Grading.
 Between 5-6-12-48-26-4. Improvement of road.
 Centre of 4-41-2-5. Improvement of road.
 Medicine Hat to Josephburg. Grading low places and culverts.
 South of Medicine Hat to Comrey. Grading.
 Between 21/28-33-6-7-10-4. Improving road.
 Between 21/22, 15/16, 27/28-9-27-4. Grading road.
 Macleod to International Boundary. Improving road.
 West of 24/25-9-26-4. Repairing road.
 Road west of Nanton. Improvement of road.
 West of 30-22-2-5. Trussing bridge.
 Calgary to Millerville and Priddis. Repairing culverts.
 In 20-1/2-5. Improvement.
 West of 33-20-28-4. Grading and filling.
 Between 24/25-33-29-4. Ditching and draining slough.
 North of 7/8/9-24-24-4. Grading with wheelers.
 Between 8/9, 16/17-34-23-4. Grading.
 East of 2, east of 35, 32/33-2-5. Filling with slushers.
 North of 10-32-2-5. Cutting down hill.
 Between Sundre and Bearberry. Grading with slushers.
 North of 20/21-34-3-5. Corduroy and grading.
 Bowden west. Culverts and bush covering.
 South of 14/16-33-23-4. Grading with wheel scrapers.
 Road west of Trochu. Grading and grubbing rocks.
 East of 10-34-28-4. Ditching and grading.
 West of 7-33-5-5. Corduroying.
 Between 5/6-34-22-4. Culvert and grading.
 Road to Hurley and Ghost Pine. Grading with blade grader.

Between 21/28, 22/27-33-23-4. Ditching and filling.
Pincher Creek to Oilfields. Picking rocks.
Ponoka east to Nelson's Lake. Grading and ditching.
West of Ponoka in 43-1-5. Raising road bed.
Ponoka to Battle Lake. Improvement of road.
South of 15 to 18-43-23-4. Improving road.
Between 8/17-44-3/4-5. Grading.
In 33-42-4-5. Covering Corduroy.
West of Bashaw. Filling sloughs and draining.
Belvedere northwest. Dragging road.
Onoway to Carvel on G.T.P. Repairing culverts
West of 3 to 22-59-1-5. Culverts and grading.
East of Lunnford. Culvert and repairing road.
East of 5/8, 17/20-59-1-5. Blowing out stump.
Base line east of Sion. Dragging road.
Between 9/16/21-57-5-5. Covering corduroy and clearing stump.
South of 27/28-57-2-5. Building culvert.
Between 35/36-58-27-4. Improvement of road.
Between 35/36, 25/26-57-3-5. Building culverts.
Road west of Waugh. Grading road.
North of 19-57-2-5. Grubbing and grading.
In 7 to 12-59-1-5. Improving road.
Road to Ferry on Pembina River. Clearing and grading.
Between 9/10-58-27-4. Improving road.
North of 7 to 12-56, 1/2/3-5. Digging a ditch.
Between 9/10-58-27-4. Grading.
West of 20/29/32-59-3-5. Improving road.
North of 1/2/3-72-7-6. Culverts.
Road from Berjanson's Crossing. Improving grade.
Between Peace River and Shaftesbury. Improvement of grade.
West of 77/78-21-5. Clearing roadway, 50 ft. wide.
North and east of 24-71-7-6. Grading road.
From Grande Prairie, 5 miles. Opening road.
North of 36-71-6-6. Clearing road.
Dunvegan to Spirit River. Opening road allowance.
Edson-Grande Prairie Trail. Covering corduroy.
In 21 to 24-83-22-5. Improving road.
North of 19-72-6-6. Grading road.
North of 83, 25/26-5. Grading and ditching.
Between 5/6-81-3-5. Improving grades.
West of 1-36-78-22-5. Clearing brush.
Lesser Slave Lake to Spirit River. Grading with blade grader.
Lesser Slave Lake to Peace River Landing. Improvement of road.
In 4/5-84-21-5. Grading.
Brown's Landing to Battle River Crossing. Improving road.
North and east of 2-38-2-5. Grading road.
Red Deer and Delburne. Improvement of road.
West of Red Deer via Snake Lake. Grading and covering corduroy.
Between 21/28-38-23-4. Corudroying and grading.
West of 7-38-2-4. Improvement of road.
West of 26-39-5-4. Grading down hill.
Between 3/17-42-9-4. Grading road.
North of 14-42-11-4. Clearing and grading.
East of 1-41-6-4. Grading road.
South of 33/34-41-8-4. Covering sandy parts.
South of 3/4, west of 3 to 34-40-1-4. Improving road.
North of 9 to 24-39-2-4. Improving road.
West of 29-3-4. Improving road.
Between 17/18 to 31/32 to 40-2-4. Clearing, cutting and filling land.
Between 16/17, 20/21-44-10-4. Grading side hills.
East of 3/10/15-41-10-4. Grading road.
North of Irvine. Improving road.
Medicine Hat to Red Deer River. Repairing main highway.
North of 7 to 12-22-2-4. Improving road.
In 18-10-4. Grading and improving road.
East of 14/23/26, 16-10-4. Improving road.
Through 15/16, 9/10-4. Raising grade.
East of 9 to 28-16-9-4. Improvement of road.
Moose Lake to Frog Lake. Grading and grubbing road.
Between 8/9-61-8-4. Improvement of road.

West of 37/58/59-6-4. Clearing and grubbing road.
 In 1/2-60-7-4. Culvert and grading.
 Frog Lake to Beaver River. Grading and brushing road.
 East of 1 to 24-60-6-4. Corduroy bush road.
 Between 17/18, 56-8-4. Grading road.
 Between 34/35-60-8-4. Improvement of road.
 Between 3/4-61-6-4. Grading road.
 Frog Lake to Lea Park. Grading and removing rock.
 East of Frog Lake in Indian Reserve. Opening road.
 East of 25-58-10-4. Improvement of road.
 Road south of Castor. Improvement of road.
 South of Stettler to Gopherhead. Grading road.
 Between 19/30-36-20-4. Grading approaches to bridge.
 Between 29/30-36-20-4. Grading approaches to bridge.
 North of 14/15/16-39-19-4. Grading road.
 Between 24/25-39-19-4. Grading road.
 Between 23/24-39-19-4. Grading road.
 Between 16/17, 20/21-34-18-4. Improvement of road.
 Between 9/10-41-19-4. Improvement of road.
 North of 10/11-40-14-4. Draining slough.
 In 8-37-18-4. Filling low places.
 South of 6-36-15-4. Grading and filling slough.
 South of Halkirk. Repairing low places.
 Stettler north-east to Donalda. Filling up slough.
 Between 27/28-34-17-4. Grading road.
 North of 35-38-16-4. Culvert and grading.
 In 16-21-28-51-3-5. Improving road north from ferry.
 Between 13/14-52-27-4. Improvement of road.
 South of Entwistle. Improvement of road.
 Bridge on 149th St. and Stony Plain Road. Repairs to bridge.
 North of Sedgwick. Improvement of grade.
 North and south through 46-13-4. Clearing and repairing.
 East of 36-46-13-4. Improvement of road.
 In 40 to 42-13-4. Grading repairs.
 South of Lougheed to Lorraine. Improvement of road.
 Between 20/21-48-14-4. Grading and brushing road allowance.
 North of Lougheed. Improvement of road.
 In 43-11-4. Improving road.
 East of 40/41/42-13-4. Grading and filling slough.
 North and south of Bruce. Grading road.
 South of 18-41-12-4. Grading and filling slough.
 Between 21/28-47-15-4. Grading slough.
 East from Galahad. Grading road.
 South-east of 3 to North-east of 34-41-13-4. Improving road.
 East of 16/21-45-11-4. Improving road.
 Between 20/21-43-15-4. Grading road.
 North of 7/12-40-11/12-4. Grading road.
 North of Lamoureaux. Filling in washout.
 Between 26/27-58-20-4. Clearing, corduroying and filling road.
 Between 15/22-65-22-4. Grading and dragging road.
 Victoria to Fort Saskatchewan. Culverts and repairs to road.
 North of 31/36-57-21-4. Grubbing, ditching and grading road.
 North of 21/24-57-21-4. Cutting out line and culverts.
 East and west of Collington. Laying corduroy.
 East and west of Bon Accord. Filling approach to bridge.
 East of Byron Siding. Covering corduroy.
 West of Byron Siding. Covering corduroy.
 Between 34/35-58-25-4. Grading road.
 East of 15-61-24-4. Grading down hills.
 East of 2 to 23-66-24-4. Improvement of road.
 East of 2/11-60-18-4. Grading and small bridge.
 Between Pakan and Smoky Lake. Corduroy and bush.
 East of 4/9-58-21-4. Improvement of road.
 East of 13/24-65-23-4. Clearing and culverts.
 Between 26/27-65-21-4. Improving road.
 Between 16/17-64-21-4. Ditching and covering grade.
 North of 21-63-23-4. Grading road.
 Lac La Biche to Athabasca Landing. Repairing bridge.
 Waugh from east and south to south-west corner. Quibbing road.
 Between 1/6-56, 23/24-4. Clearing and grubbing.

West of 6/31-58-23-4. Improving road.
In 7-8-58-24-4. Grading and covering corduroy.
North of 19/24-58-24-4. Improving road.
North of 56-27-4. Grading road.
Between 55/60-26-4. Dragging road.
Between 8/17, 9/16-55-26-4. Improving road.
In 55-26-4. Improving road.
North Boundary of 54-26-4. Grading and filling.
Between 14/15-54-26-4. Leveling road.
Between 55/60-26-4. Improvement of road.
Between 55/56, 24/25/26-4. Repairing road.
St. Albert to Lac Ste. Anne. Grading and filling.
Between 1/2 to 35/36-56-25-4. Leveling road.
East of 23/14-54-26-4. Improving road.
Between 19/30-55, 26/27-5. Grading and repairs.
West of Waugh. Improving road.
Between 2/3-57-25-4. Grading road.
North and east of 21-56-25-4. Repairing road.
Between 4/5 to 32/33, 57/58-24-4. Improving road.
East of 4 to 33-57-26-4. Grading and improving road.
Leading to Legal and Busby. Clearing road.
Between 28/29, 20/21-56-26-4. Improving road.
North of 8-57-27-4. Leveling road.
Between 3/4 to 33/34-58-24-4. Repairing road.
West of 4/5 to 6/7-54-25-4. Grading and repairs to road.
Between 32/33-54-26-4. Improving road.
Between 12/3-57-25-4. Grading and filling up road.
Between 55/57-25-4. Leveling road.
Between 25/26, 35/36-55-26-4. Improving road.
In 56 to 58, 24/25-4. Grading road.
Between 31/36, 25/30-58-1-5. Repairing road.
Between 31/32, 5/6, 53/54-26-4. Improving road.
North Bank of Sturgeon River. Grading and improving road.
West of Irrigation Canal. Improvement of road.
North of Coaldale. Improvement of road.
Taber to Retlaw. Repairs to approaches to bridge.
North of 9-13-19-4 to 9-13-17-4. Improvement of road.
Between 8/9, 19/20, 17/18-4. Filling up slough.
Between 7/8-10-14-4. Making new road.
North of Innisfree. Clearing and grubbing.
Between 54/55-9-4. Filling holes and removing rocks.
Between 27/28-52-6-4. Cutting down hills.
Vermilion to Landonville. Clearing and grubbing and grading.
Between 20/21-51-9-4. Grading road.
East of 18-50-8-4. Sidehill, grade and fill.
Between 11/14-55-7-4. Grading road.
Minburn to south boundary 49. Cutting hills and grading sloughs.
North 24-54-9-4. Clearing, grading and brushing.
South 2-54-8-4. Grading slough.
Between 7/18-53-17-4. Grading approaches to bridge.
Ryley to Holden. Improvement of road.
Mundare to Bawlf. Dragging road.
North 36-50-17-4. Improving road.
North 19/20-54-17-4. Improving road.
Mundare to Pakan. Improvement of road.
North Tp. 52-17-4. Improving road.
South of Mundare. Repairs to road.
North of 7 to 10-53-12-4. Improvement of road.
Between 3/4, 9/10-52-12-4. Grading road.
West of 4/33-49-14-4. Improving road.
Through 28-52-18-4. Grading repairs.
North of 20/24-53-16-4. Improving road.
West of 4/33-52-16-4. Grading road.
West of 10/15-54-17-4. Improvement of road.
West of Ryley. Grading road.
Between 13/14-52-13-4. Improvement of road.
Between 20/21-51-12-4. Grading road.
West of Ranfurly. Grading road.
Between 23/26-56-20-4. Corduroying.
Between 1/7-55-18-4. Laying corduroy.

Between 8/9-56-20-4. Covering corduroy.
 In 33-55-17-4. Covering corduroy.
 River lots 1 to 7, Fort Saskatchewan Settlement. Grading low places.
 Mundare north. Culverts.
 Lamont to Andrew and east. Reducing hill and box culverts.
 Lamont station north and west from 8/9-56-19-4. Improvement of road.
 North of Bruderheim. Putting in culverts.
 East of 17 to 32-55-18-4. Improvement of road.
 East from Star. Improvement of road.
 Between 3/34 to 6/31, 55/56-18-4. Grading and improvement of road.
 6 to 30-56-19-4. Dragging of road.
 Between 11/12-41-1-4. Improvement of road.
 Between 14/15-41-1-4. Grading road.
 Between 12/13-41-1-4. Improvement of road.
 Between 11/12-41-3-4. Improving road.
 In 20-21-28-33, 46-6-4. Grading.
 East of Warner. Grading road.
 Across Verdigris Coulee. Improvement of road.
 In 13-4-17-4. Grading road.
 Between 35/36-6-17-4. Improvement of road.
 Between 3/4-4-11-4. Grading around lake.
 North of 7 to 11-3-12-4. Grading low places.
 Between 31/36-2, 12/13-4. Grading road.
 North and west of Goddard. Improvement of road.
 Between 4/5-3-16-4. Repairs to road.
 North of 31-4-15-4. Grading road.
 South of 27-4-16-4. Grading with engine.
 North of 1-5-17-4. Clearing and repairs.
 Between 15/16-6-17-4. Improving road.
 West of Warner. Grading road.
 South of New Dayton. Repairs to road.
 In 19/20/21-5-18-4. Improvement of road.
 South and east of 2-5-17-4. Grading road.
 Between 19/20-4-16-4. Repairs to road.
 Between 2/3-5-16-4. Improving.
 South of Shandro. Clearing road and grading.
 West of 33-58-17-4. Improving road.
 West from Veillette. Culverts and corduroy.
 South of 33-57-15-4. Improving road.
 In 58-13-4. Grading and grubbing.
 East of 36-59-17-4. Building grade.
 Vegreville to Desjarlais Crossing. Raising old grade.
 Between 15/16-57-14-4. Grubbing stumps.
 Victoria north past Smoky Lake. Corduroy and brushing road.
 Millet west to Bonnie Glen. Grading road.
 In 35-46-3-5. Cutting down hill.
 North of 45-23-4. Grading road.
 North and west of 21-45-23-4. Improvement of road.
 South of 14-45-2-5. Grading and covering corduroy.
 North of Pigeon Lake. Grading and grubbing.
 North of 19/20-4-16-4. Grading with engine.
 South of 14-45-26-4. Plowing and grubbing.
 Wetaskiwin to Coal Lake. Clearing and grubbing.
 North and west from Beaver Hills Lake. Dragging road.
 Wetaskiwin to Bittern Lake. Maintenance of road.
 Bonnie Glen Road. Dragging road.
 West of 4/9-45-23-4. Improving road.
 West of Lewisville. Grading road.
 East of 12-45-1-5. Clearing and repairing road.
 Between 5/6, 7/8, 17/18, 46-23-4. Dragging road.
 Wetaskiwin west to Battle Lake. Maintenance of road.
 Between 17/18-47-23-4. Cutting and laying corduroy.
 Islay north to Ferry. Improvement of road.
 Fort Vermilion to Smith's Fort and Landing. Improvement of road.
 Between 61/64, 10/13-4. Improvement of road.
 From Drumheller east. Repairing road.
 Cluny to Milo. Repair culverts and filling in sloughs.
 South of Bassano to Bridge. Building road.
 Road to connect with Morley. Repairs to road..

Boulevard at Calgary. Removing rocks and improving road.
 In 35-36-37-13-4. Improvement of road.
 Ohaton to Meeting Creek and south. Repairs to road.
 South Camrose to Duhamel. Repairs to road.
 9 miles east towards Beaver Lakes. Improvement of road.
 Through Blackfoot Reserve. Repairs.
 East of 30/31-30-17-4. Improvement of road.
 South of Stettler to Drumheller. Constructing and repairing road.
 In 28-18-19-4. Repairs.
 Lac Ste. Anne to Paddle River. Repairs to road.
 East and west of Saron. Improvement of road.
 Lacombe to Gull Lake. Repairing road.
 Medicine Hat to Josephburg. Repairs to road.
 South of Medicine Hat to Comrey. Improvement of road.
 East and west of Clyde. Clearing and repairing road.
 Between 5/6, 7/8, 17/18, 29/30, 59-26-4. Improving road.
 St. Paul to Rife. Repairs to road.
 East of 22/27/34, 61-5-4. Improvement of road.
 Rife to Cold Lake. Constructing road.
 Elk Point to St. Pauls. Improvement of road.
 Between 26/27-56-5-4. Repairs to road.
 Frog Lake to Beaver River. Improvement of road.
 South and east of Stettler. Grading and improving road.
 South of Stettler to Drumheller. Culverts and grading road.
 Between 31/32, 5/6, 53/54-26-4. Repairing road.
 North and south of Alliance. Improving road.
 Victoria to Fort Saskatchewan. Repairs.
 Mannville north to Ferry. Repairs and grading road.
 Vermilion to Hopkin's Ferry. Culverts and repairs to road.
 North of Bruderheim. Improving road.
 Mundare to Pakan. Repairs to road.
 East of 5/7-6-11-4. Culverts and repairs to road.
 Vegreville to Desjarlais Crossing and north. Repairs to road.
 Wetaskiwin to Buck Lake. Improvement of road.

Work performed in 1918 by the Department in Administration of M. D. Trust Funds.

Road north of 35-24-9-4.
 Road between 27/28-24-9-4.
 Road south from Chinook to Chilmark.
 Road south of 19-68-21-4.
 Road east of 7-67-22-4.
 Road Lesser Slave Lake Trail.
 Road Calling Lake Trail north of Athabasca.
 Road trail to Ft. McMurray.
 Road east of 5 to 17-62-10-4.
 Road Normandeau to Lac La Biche Trail.
 Road east of 29 and 32-61-10-4.
 Road east of 3 to 34-60-15-4.
 Road east of 13-60-16-4.
 Road east of 4 to 16-60-17-4.
 Lac La Biche Saddle Horse Trail.
 Road Lac La Biche-Plamondon.
 Road from Lac La Biche Station to Big Bay.
 Road River Lot 45 to R.L. 49.
 Road north of Tp. 66-14/15/16-4.
 Road N.W. from 16-66-15-4.
 Road Athabasca to Plamondon.
 Road east of 13 and 24-68-17-4.
 Road Plamondon to Settlement N.W.
 Road north of Tp. 66, 14 to 17-4.
 Road east of 4 to 28, 18-18-4.
 Road north of 8 and 9-18-18-4.
 South-west over Bridge, Bow River, east of 26-19-20-4.
 Road between 3/4-20-20-4.
 Road north of 23-19-20-4.
 Road north of 34-19-20-4.
 Road east of 32-19-20-4.
 Road between Millicent and Gregory's Ferry.

Road south from Steveville Ferry.
Road west of 3-20-18-4.
Road south of 3-20-18-4.
Road between 11/12-21-17-4.
Road north of 9 to 11-20-17-4.
Road Countess to Rosemary.
Road south from N.W. corner 20-20-17-4.
Road between Bassano and Hutton's Ferry.
Road north of Tp. 22-16/17-4.
Road 3-5/6-23-20-4.
Road west of Tp. 21-22-20-4.
Road through 8-23-19-4.
Road north of 7-23-19-4.
Road north from 2-22-20-4.
Road north 2 miles from N.E. 25-23-18-4.
Road east of 31-21-20-4.
Road east of 11-22-21-4.
Road Sec. 13-22-21-4.
Road south of 14-22-21-4.
Road north of Cluny.
Road east of 32-24-21-4.
Road between 19/20-24-21-4.
Road south of 6-25-20-4.
Road south of Benyon.
Road south of Magrath to S.E. corner of 6-3-21-4.
Road north of Tp. 1, W 21-4.
Road east of 14 and 23-1-22-4.
Road east 8 miles from N.E. corner 10-1-21-4.
Road east of 19-1-21-4.
Road north of 20 and 21-1-21-4.
Road west of 30 and 31-1-21 and 23-4.
Road north of 8 and 9-3-24-4.
Road east of 18 and S.E. of 19-3-24-4.
Road east of 4 and 9-3-24-4.
Road south of Magrath to S.E. corner 6-3-21-4.
Road north of 21, 22 and 23-1-24-4.
Road south of 13-1-24-4.
Road north to 23 and 26-2-24-4.
Road east of 4-9, 16 and 21-2-24-4.
Road Tp. 2, 23 and 24-4.
Road east of 36-1-22-4.
Road through 10 to 18-1-23-4.
Road through 19-3-24-4.
Road between 15/22-2-25-4.
Road between 17/18-2-27-4.
Road through Tp. 2, R. 26/27-4.
Road S.E. $\frac{1}{4}$ 5-2-25-4.
Road east of 10 and 15-2-25-4.
Road east of 24 and across 25-2-28-4.
Road east of 13 to 25-1-26-4.
Road east of 4 to 16-2-26-4.
Road west of 23 and 26-5-21-4.
Road east of 25-5-21-4.
Road north 7 miles from S.W. corner 4-5-20-4.
Road between 21/28-5-20-4.
Road east of 31 and 32-5-20-4.
Road west of 11 and 14-5-20-4.
Road through 36-5-22-4.
Road north of 31 to 35-5-22-4.
Road east of 26 and 25-3-25-4.
Road east of 34 and 3 to 10, Tp. 5 and 6-22-4.
Road north of 7-8 and 9-4-24-4.
Road south of 2 and 3-4-24-4.
Road north from S.E. corner 8-4-23-4.
Road east of 26 and 35-5-22-4.
Road east of 5 and 8-4-24-4.
Road west $\frac{1}{2}$ of 24-11-28-4.
Road north of 22-12-28-4.
Road east of 12-11-28-4.
Road S.W. $\frac{1}{4}$ of 14-11-28-4.

Road between 12/13-11-28-4.
Road east of 11 and 14-11-28-4.
Road east of 13-12-28-4.
Road between 26/27-12-28-4.
Road north of 9 and 10-12-28-4.
Road north of 36-12-28-4.
Road east of 3 to 10-62-3-5.
Road between 26/27-60-3-5.
Road north of 11-60-3-5.
Road 18 to 27-61-6-5.
Road 18 to 27-61-6-5.
Road north of 27-70-11-6.
Road from N.E. corner 10-25-4-5, and west 4 miles.
Road from Bow River Bridge to N.E. 10-25-4-5.
Road sec. 29-24-5-5.
Road Dog Pound Trail.
Road east of 2 and 35-27-2-5.
Road between Cochrane and Horse Creek.
Road north of 9 and 10-27-4-5.
Road north from N.E. corner 9-27-4-5.
Road east of 25-27-4-5.
Road Lochend Trail.
Road sec. 32-27-3-5.
Road north of 24-27-2-5.
Road west of 18 to 30-27-4-5.
Road east of 6 and 7-27-4-5.
Road Big Hill Creek Trail.
Road between 35/36-25-3-5.
Road north of 11 and 12-27-5-5.
Road Grand Valley Trail.
Road from 1 to 10-29-5-5.
Road north of 36-28-4-5.
Road north of 34-30-5-5.
Road through 35 and 36-29-5-5.
Road south of 8-33-3-4.
Road Grade over Dry Lake.
Road Consort east 15-35-6-4.
Road sec. 9-35-6-4.
Road east of 15 and 22-35-6-4.
Road Monitor to Sounding Lake.
Road north 8 miles from N.E. corner 22-35-6-4.
Road north Tp. 37-9 to 11-4.
Road south of 27 and 28-35-9-4.
Road north from Veteran.
Road east of 4 and 9-35-8-4.
Road north of 37, 9 to 11, 4.
Road east of 14 to 36-26-2-5.
Road north of 34 to 36-31-6-5.
Road from N.W. corner Tp. 31-5-5, east 9 miles.
Road sec. 29-39-8-5.
Road sec. 21-39-8-5.
Road between 21/28-54-14-5.
Road in 27/35-54-14-5.
Road south of Atlee Station.
Road east of 32-56-14-4.
Road sec. 8-55-14-5.
Road north of 33-56-14-5.
Road between 28/33-54-15-5.
Road east of 31-23-22-4.
Road north of 12-24-33-4.
Road between 14/15-24-22-4.
Road north of 19 to 24-22-22-4.
Road east of 31-23-22-4.
Road between Sawridge and E.D. & B.C. Station.
Road between Grouard and Big Prairie.
Road between Grouard and Enilda Station.
Road through 21 to 23-75-13-5.
Road east of 6 and 7-75-16-5.
Road east of 2 and 11-75-17-5.
Road north of Tp. 77, 20 and 21-5.

Road east of 21 and 28-77-21-5.
Road east of 2-78-21-5.
Road south of Tp. 27, 16 and 17-4.
Road east of 32-28-18-4.
Road east of 25-28-18-4.
Road between 2/3-28-18-4.
Road south of Tp. 28-17-4.
Road between 33/34-26-14-4.
Road between 13/14-28-17-4.
Road from Willow Creek Crossing N.W. 23-28-19-4.
Road east of 26 and 35-28-19-4.
Road north of 23 and 24-28-19-4.
Road from Clark's Hill to Ferry in Sec. 22-28-19-4.
Road Pekisko to High River.
Road through 27 and 34-18-2-5.
Road between 5/6-37-6-5.
Road from Leaman north.
Road from Leaman north.
Road south from Whitecourt.
Road between Greencourt and Whitecourt.
Road west of 4, 9 and 16-59-10-5.
Road east from Whitecourt.
Road north from Rochford.
Road Whitecourt to Allandale Ferry.
Road west of 2-50-6-5.
Road west of 16-8-21-4.
Road east of 16-8-21-4.
Road north of 8-8-21-4.
Road west of 35-8-22-4.
Road east of 33-10-22-4.
Road west of 30-13-21-4.
Road east of 7 to 19-13-21-4.
Road north of 8-13-21-4.
Road north of 33-10-21-4.
Road east of 21-13-21-4.
Road north of 22 and 23-12-21-4.
Road north of 19 to 21-13-21-4.
Road north of 31-12-21-4.
Road east of 21 and 28-17-19-4.
Road west of Tp. 17-20-4.
Road Main Highway, through Rg. 23-4.
Road east of 7 to 29-9-27-4.
Road Sec. 9-1-2-4.
Road east of 10-1-2-4.
Road north of 10-1-2-4.
Road from Manyberries south 4 miles.
Road south from Orion.
Road east of 26-2-5-4.
Road east of 28-1-4-4.
Road north of Tp. 22-1-4.
Road east of 22-2-6-4.
Road north of 22-2-6-4.
Road north of 34-1-4-4.
Road from N.E. corner 23-3-9-4, west 8 miles.
Road east of 15-3-7-4.
Road east of 16 to 21-3-7-4.
Road east of 11-3-7-4.
Road east of 10 and 22-3-9-4.
Road from N.W. corner 10-3-8-4, east 7 miles.
Road east of 21-3-9-4.
Road east of 16-3-8-4.
Road north of 22 and 24-3-7-4.
Road N.E. of 8-1-10-4.
Road Sec. 29-2-10-4.
Road S.E. from N.W. corner of 36-9-5-4.
Road between Medicine Hat and Comrey.
Road south from Orion.
Road Secs. 10 and 14-6-5-4.
Road north of 21-4-5-4.
Road over Cypress Hills.

Road on Elkwater Trail.
Road south from Walsh.
Road S.E. from N.W. corner 36-9-5-4.
Road north of 32-9-3-4.
Road east of 36-8-3-4.
Road north of 19 and 22-9, 2 and 3-4.
Road Secs. 23 to 25-7-3-4.
Road Walsh to Graburn:
Road through 21 and 22 and north of 23-7-4.
Road Sec. 22-7-3-4.
Road Sec. 25-8-3-4, to 1-8-4-4.
Road east of 27-9-2-4.
Road north of 8-10-3-4.
Road Walsh to Graburn.
Road Sec. 7-7-2-4.
Road east of 7-10-3-4.
Road S.E. from N.W. corner 36-9-5-4.
Road between Medicine Hat and Comrey.
Road Sec. 2-7-4-4 and S.W.
Road east of 34-9-4-4.
Road north of 31-7-6-4.
Road south of Bullhead Lake.
Road Medicine Hat to Manyberries.
Road east of 6 and 18-9-9-4.
Road between Seven Persons and Orion.
Road between Seven Persons and Pakowki.
Road east of 9-9-9-4.
Road east of 26 and 35-9-9-4.
Road north of 27-7-9-4.
Road north of 32 and 36-8-9-4.
Road Sec. 14-7-9-4.
Road east of 29-10-7-4.
Road east of 12-9-10-4.
Road on Elkwater Trail.
Road from Walsh along 4th Mer.
Road Medicine Hat and 4th Mer.
Road from Irvine to 33-9-3-4.
Road east of 16-10-2-4.
Road in 2-11-3-4.
Road east of 12 and 13, 10 and 12-4-4.
Road main road north from Irvine.
Road north of 31 to 34-10-3-4.
Road east of 3-12-2-4
Road Walsh to Graburn.
Road east of 20 to 29-10-2-4.
Road north of 10 and 11-10-2-4.
Road east of 33-12-3-4.
Road Walsh to Graburn.
Road Secs. 33 to 36-10-7-4.
Road east of 5-11-8-4.
Road east of 19-10-8-4.
Road east of 45-10-7-4.
Road between Seven Persons and Bow Island.
Road east of 31-10-9-4.
Road north of 20-10-7-4.
Road east of 4-10-9-4.
Road east of 19-10-7-4.
Road east of 25 and 36-11-8-4.
Road Medicine Hat to Seven Persons.
Road east of 18-11-7-4.
Road east from Winnifred to north of 9 to 11-11-9-4.
Road east of 17-10-9-4.
Road north of 8-12-9-4.
Road north of 19 and 22-11, 7 and 8-4.
Road east of 21-12-9-4.
Road east of 24-10-10-4.
Road west of 18-14-29-4.
Road Secs. 12 and 13-14-30-4.
Road east from Bezanson's Crossing
Road Sec. 31-71-9-6.

Road north of 8-71-9-6.
 Road east of 7-74-6-6.
 Road between 5 and 6-74-7-6.
 Road north of 31 to 34-73-6-6.
 Road east of 2 to 14-78-22-5.
 Road between Grouard and Peace River.
 Road between Grouard and Peace River.
 Road N.E. of 2-78-5-6.
 Road between Grouard and Peace River.
 Road between Hart and Smoky Rivers.
 Road fencing Upton's Trail.
 Road into West Peace River.
 Road grading hill at Dunvegan.
 Road Peace River Landing to Nelson River.
 Road Dunvegan to Spirit River.
 Road between 27 and 28-60-2-5.
 Road north of 21-60-2-5.
 Road east of 13 and 24-60-2-5.
 Road N.W. through Tp. 61-1-5.
 Road Secs. 20 to 32-58-4-5.
 Road north of 22 and 23-64-27-4.
 Road north of 23-64-1-5.
 Road from S.E. corner 28-13-4-4, north 14 miles.
 Road north of Irvine.
 Road east of 12 and 13-13-4-4.
 Road north of Tp. 12-2 to 5-4.
 Road from Chappie Lake to N.W. corner 12-14-3-4.
 Road north 2½ miles from west side 12-14-3-4.
 Road Sec. 8-14-1-4.
 Road north of Tp. 14-3 and 4-4.
 Road east of 21-14-4-4.
 Road east of 21-14-3-4.
 Road north of 7 and 8-13-3-4.
 Road east from S.E. corner 26-14-3-4.
 Road Medicine Hat to Howell.
 Road between Medicine Hat and Empress.
 Road Howell to Suffield.
 Road north from Redcliff 9½ miles.
 Road west from Redcliff.
 Road south of 6-14-7-4.
 Road east of 27 and 34-13-8-4.
 Road east of 31-13-7-4.
 Road east of 31-13-7-4.
 Road east of 17 to 32-14-7-4.
 Road west of Tp. 16-6-4, north from Stair 8 miles.
 Road north of 23-13-6-4.
 Road from S.E. corner 28-13-4-4, north 14 miles.
 Road from N.E. corner 12-15-2-4, north 10 miles.
 Road south of 16 and 17-15-2-4.
 Road north 2 miles from S.E. corner 6-15-2-4.
 Road north of 34 and 35-14-4-4.
 Road north through centre of Tp. 15-2-4.
 Road north of 10 to 12-16-2-4.
 Road north 3½ miles from S.E. corner 4-15-3-4.
 Road Medicine Hat to Empress.
 Road from N.E. corner 12-16-7-4 to N.W. corner Tp. 18-7-4.
 Road from N.E. corner 36-16-2-4 to N.E. corner 24-18-2-4.
 Road from N.E. corner 12-18-2-4, west 9 miles.
 Road east of 4 and 9-18-2-4.
 Road from N.W. corner of 35-16-1-4, north 12 miles.
 Road from N.E. corner 17-1-4, west 9 miles.
 Road Medicine Hat to Empress.
 Road south of 28 to 30-22-7-4.
 Road east boundary 32-21-7-4, west 2 miles.
 Road from N.E. corner 35-20-4-4, north 4 miles.
 Road from N.E. corner 31-20-4-4, north 4 miles.
 Road north 7 to 11-21-4-4.
 Road east of 18-21-5-5.
 Road east of 16 and 21-21-5-4.
 Road north of 31 to 34-20-4-4.

Road east of 4 to 28-22-7-4.
Road east of 31-21-7-4.
Road north of 20-21-4-4.
Road from N.E. corner 36-20-5-4, north 4 miles.
Road from N.E. corner 34-20-4-4, north 4 miles.
Road east of 2 to 11-22-4-4.
Road north-east corner 35-20-8-4, south 5½ miles.
Road to Ferry in 14-22-4-4.
Road from Jenner to Ferry.
Road across N.W. ¼ 27-20-10-4.
Road between Iddesleigh and Jenner.
Road north of 7 to 12-22-7-4.
Road east of 6 and 7-22-7-4.
Road south of 3-4 and 5-20-10-4.
Road from Railway Crossing east of 28-20-10-4, south 10 miles.
Road down Canyon to Armstrong Ferry.
Road between Iddesleigh and Jenner.
Road from S.E. corner 4-21-2-4, north 8 miles.
Road north of 27 to 30-22-1-4.
Road north of 8-21-2-4.
Road north of 35-21-2-4.
Road from N.E. corner 20-21-2-4, north 4 miles.
Road from N.E. corner 21-22-2-4, south 8 miles.
Road from east of 20-22-1-4, south 10 miles.
Road east of 27 and 30-22-1-4.
Road Sharrow south and east 2½ miles.
Road east of 2 and 11-23-1-4.
Road south from Steel Bridge, east 9-39-7-5.
Road west of 22 and 27-38-6-4.
Road west of 13 to 25-38-4-4.
Road north from Neutral Valley.
Road west of Sec. 6-7-8, 37-6-4.
Road north of 35 and 36-37-7-4.
Road through Secs. 21 to 33-37-7-4.
Road south of 8-41-7-4.
Road from N.E. corner 7-40-9-4, south 4 miles.
Road south of 33 to 35-40-9-4.
Road north of 8-40-9-4.
Road west of 4 and 9-39-9-4.
Road west of 9-39-9-4.
Road Sec. 27-38-7-4.
Road west of 7 and 18-40-6-4.
Road east of 14-40-9-4.
Road north of 17 and 18-40-6-4.
Road south from Amisk
Road west of 16-40-7-4.
Road west of 36-40-8-4.
Road east of 30 and 31-39-8-4.
Road east of 2 and 11-39-7-4.
Road west of 19-39-8-4.
Road north of 19-39-8-4.
Road east of 1-41-6-4.
Road south of 14-41-6-4.
Road between Frank and Lundbreck.
Road Blairmore to Crow's Nest Pass.
Road north of 7 to 12-23-4-5.
Road north of 8 and 9-56-3-4.
Road Secs. 29 and 33-54-1-4.
Road west of Tp. 56-3-4.
Road south of 2 and 3-55-2-4.
Road Sec. 14-54-3-4.
Road east of 13-58-7-4.
Road Sec. 5-56-8-4.
Road between 32 and 33-63-5-4.
Road north of 25-63-2-4.
Road Sec. 13-63-2-4.
Road between 14 and 15-63-2-4.
Road north of 9 to 12-6-21-4.
Road from N.E. corner of 31-6-20-4, south 4 miles.
Road east of 16 to 33-6-20-4.

Road east of Raymond 6 miles.
Road east of 17 to 20-6-19-4.
Road east of 24-6-21-4.
Road east of 2 and 11-6-22-4.
Road east of 5 and 8-6-22-4.
Road east of 14 to 35-6-22-4.
Road east of 8 to 29-17-4.
Road south of Tp. 7-17-4.
Road south of 6-9-16-4.
Road north of Taber.
Road east of 6 to 19-9-16-4.
Road north of 33 and 36-9, 18 and 19-4.
Road through Tp. 9-16 to 18-4.
Road east of 21-9-17-4.
Road south of 2 to 5-7-16-4.
Road east of 1 to 24-7-17-4.
Road east of 9-19-16-4.
Road east of 19-9-17-4.
Road east of 8-9-16-4.
Road east of 20-7-21-4.
Road between Lethbridge and Stirling.
Road from N.E. Corner 32-7-20-4, south 6 miles.
Road east of 33-7-21-4.
Road east of 11-9-20-4.
Road north of 33-9-18-4.
Road between Lethbridge and Chin.
Road west of 25-8-19-4.
Road north of 22 to 24-8-19-4.
Road east of 2 and 11-11-20-4.
Road south of 1-2-3-11-20-4.
Road east of 19-11-19-4.
Road east of 13-12-19-4.
Road west of 30 and 31-13-19-4.
Road north of 32 and 33-19-19-4.
Road east of 15 to 34-13-19-4.
Road east of 35-13-19-4.
Road north of 32 to 34-13-19-4.
Road south of 16 and 17-13-19-4.
Road south of 15-11-19-4.
Road north of 11-12-16-4.
Road east of 9 to 33-15 and 16-18-4.
Road east of 36-16-18-4.
Road east of 5 to 32-14-18-4.
Road east of 15 to 34-15-18-4.
Road east of 11 and 14-14-18-4.
Road north of 33 and 34-16-18-4.
Road east of 14 to 35-15-18-4.
Road east of 6 to 18-14-18-4.
Road from 7 to 12-14-18-4.
Road south of 3 and 4-14-18-4.
Road east of 22 and 27-14-18-4.
Road north of 21 and 22-14-18-4.
Road north of 20 and 22-15-18-4.
Road north of 34-15-18-4.
Road between 2/3-15-16-4.
Road east of 25-15-17-4.
Road east of 18-15-16-4.
Road north of 7 to 12-16-18-4.
Road north of 19-16-18-4.
Road west of 27 and 34-17-18-4.
Road north of 10-17-17-4.
Road north of 34 and 35-16-17-4.
Road west of 17-17-18-4.
Road north of 19-17-18-4.
Road west of 19-17-18-4.
Road east of 12-17-17-4.
Road north of 19 and 24-3, 11 and 12-4.
Road north of 32-2-11-4.
Road east of 34-3-11-4.

Road south from Foremost.
Road east of 2-3-12-4.
Road between 14 and 15-3-11-4.
Road north of 10-3-11-4.
Road south of 27 to 29-2-14-4.
Road east of 4 and 9-3-12-4.
Road south of 4 and 5-3-12-4.
Road Sec. 8-2-13-4.
Road east of 31-2-12-4.
Road through 19 to 21-2-14-4.
Road east of 19-2-14-4.
Road east of 17 to 20-2-15-4.
Road east of 18 and 19-2-15-4.
Road east of 14 and 23-3-12-4.
Road north of 8 and 9-2-15-4.
Road south of Tp. 2-13-4.
Road east of Milk River in Tp. 2-12-4.
Road north of 10 and 11-3-12-4.
Road east of 13-2-15-4.
Road east of 24-2-16-4.
Road between 14 and 15-2-15-4.
Road between 13 and 14-2-15-4.
Road between Warner and Milk River.
Road north of 8 and 9-3-16-4.
Road north of 8 and 10-7-16-4.
Road Sec. 4-2-18-4.
Road north of 32 and 33-1-18-4.
Road N.E. corner 18-2-16-4, south 7 miles.
Road north of 16 and 17-2-16-4.
Road east of 3 and 10-3-16-4.
Road east of 21 to 31-1-17-4.
Road between 19 and 20-1-17-4.
Road north of 21 and 22-1-17-4.
Road between 35 and 36-1-17-4.
Road east of 4 and 9-3-16-4.
Road east of 28 and 33-2-16-4.
Road north of 34 to 36-2-16-4.
Road north of 35-2-16-4.
Road east of Milk River.
Road between Milk River and Coutts.
Road west from N.E. corner of 7-1-16-4.
Road east of 14 and 23-2-16-4.
Road north of 7 to 12-4-15-4.
Road south of 4-4-15-4.
Road between Secs. 7 and 8-5-15-4.
Road N.W. corner 19-4-16-4.
Road Sec. 11-5-14-4.
Road from N.E. corner 12-5-15-4, and south 3 miles.
Road east of 18 and 19-5-14-4.
Road north of 31-4-15-4.
Road north of Tp. 4-15-4.
Road Yeoford to Buck Lake.
Road from Battle River to N.E. corner 35-46-3-4.
Road south of Kitscoty.
Road south of Blackfoot.

FERRIES, 1918.

The total number of Ferries operated by this Department in 1918 was 70.

There were a few ferries located at points where the traffic was so light that it did not warrant the employment of an operator. These ferries were maintained by the Department so that the people could operate them for their own convenience.

These were as follows:

Over Old Man River north of Purple Springs;
Over Athabasca River on Edson-Grande Prairie Trail;
Over Baptiste River on Edson-Grande Prairie Trail;
Over Little Smoky River on Edson-Grande Prairie Trail.
Over Old Man River north of Grassy Lake;
Over Bow River south of Bassano;

making 76 Government owned ferries in the province.

New ferries were built and installed on the following locations:

Over Athabasca River at Mirror Landing.
Over the McLeod River north of Mahaska.
Over the Bow River north of Vauxhall.

New scows were built in connection with the following ferries:

Over the North Saskatchewan River at Victoria.
Over the North Saskatchewan River at Shandro.
Over the Peace River at Peace River Crossing.
Over the Red Deer River west of Munson.
Over the North Saskatchewan River at Mooswa.
Over the Bow River at Amethyst.
Over the North Saskatchewan River at Elk Point.
Over the Red Deer River west of Morrin.

The following is a complete list of ferries in the province at the close of the season of 1918:

Red Deer River at Prince's Ranch.
North Saskatchewan River at Brosseau.
North Saskatchewan River at Desjarlais.
Athabasca River at Holmes' Crossing.
Bow River south-west of Cluny.
Red Deer River at Dorothy.
North Saskatchewan River at Victoria.
North Saskatchewan River at Fourth Meridian.
Athabasca River at Athabasca.
Tolman Ferry over Red Deer River.
North Saskatchewan River at Shandro.
Pembina River at Wild Horse.
North Saskatchewan River at Hopkin's Crossing.
Red Deer River at Fieldholm.
North Saskatchewan River at Rocky Mountain House.
Peace River at Peace River Crossing.
Lac Ste. Anne at the Narrows.
North Saskatchewan north of Kitscoty.
North Saskatchewan north of Lamont.
Pembina River at Sunniebend.
Pembina River at Wright's Crossing.
North Saskatchewan River at Lamora's Crossing.
Bow River south of Strathmore.
Peace River at Dunvegan.
South Saskatchewan River at Bow Island.
North Saskatchewan River north of Mannville.
North Saskatchewan River at Fraser Landing
Pembina River at Entwistle.

Red Deer River at Steeveville.
Bow Valley at River Bow.
Beaver River at Cold Lake Crossing.
Old Man River north of Purple Springs.
Bow River at Rocky Buttes.
Red Deer River west of Munson.
North Saskatchewan River south of Tomahawk.
Red Deer River at Finigan's Crossing.
Pembina River at Matthew's Crossing.
North Saskatchewan River at Mooswa.
Pembina River at Lunnford.
Athabasca River on Edson Trail.
Baptiste River on Edson Trail.
Belly River at Grassy Lake.
Little Smoky River on Edson Trail.
Bow River at Eyremore.
McLeod River north of Thornton.
McLeod River at Whitecourt.
Red Deer River at Iddesleigh.
Bow River at Amethyst.
Beaver River at Durlingville.
North Saskatchewan River north of Bruderheim.
Pembina River at Manola.
McLeod River north of Peers.
Red Deer River north of Jenner.
Red Deer River at Gregory's Ford.
North Saskatchewan River at Elk Point.
Red Deer River at Emerson's Ford.
Red Deer River at Empress.
Pembina River north of Sangudo.
Red Deer River west of Morrin.
Pembina River west of Eunice.
Athabasca River at Mirror Landing.
McLeod River north of Mahaska.
Red Deer River north of Pancras.
Red Deer River north of Atlee.
North Saskatchewan River at Forbesville.
South Saskatchewan River at Fourth Meridian.
McLeod River north of Rosevear.
Athabasca River at Hinton.
Big Smoky River near the mouth of Wapiti River.
Red Deer River north of Majestic.
Bow River south of Bassano.
Peace River at Vermilion—2 ferries.
Saskatchewan River at Heinsburg.
Red Deer River below Rosedale.
Red Deer River at Niddrie's Crossing.
Bow River north of Vauxhall.

SURVEYS BRANCH

EDMONTON, January 27, 1919.

THE DEPUTY MINISTER,
Department of Public Works,
 Edmonton, Alberta.

SIR,—I have the honour to submit the following report in connection with work in the Surveys Branch for the year 1918.

In pursuance of the urgent demand for surveys from the various Municipal Districts it was necessary to retain the same force in the field as last year, and whilst the actual outdoor season was cut down, there was a considerable amount of work done, comparing very favourably with previous years.

There is still, however, a heavy list of outstanding requests which it has been found necessary to carry forward to the 1919 schedule.

As was anticipated very few townsite plans have been presented for approval, such of them as have been being mainly of railway townsites and additions thereto.

Progress in connection with the Alberta and British Columbia Boundary survey has been satisfactory.

Appended hereto is a summary showing the work of this branch during the year (which has been exceptionally heavy), also the reports of the district surveyors and engineers.

I have the honour to be, Sir,

Your obedient servant,

A. P. C. BELYEA,
Assistant Director of Surveys.

SUMMARY.

Surveys required and brought forward from 1917 -----	816
Surveys asked for during 1918-----	966
Surveys made during 1918 -----	832
Surveys carried over to 1919 schedule -----	797
Surveys made without instructions (included in the above figures)-----	172
Miscellaneous examinations made during the season-----	129
Surveys cancelled during 1918 -----	24
Plans prepared and filed in the Land Titles Office -----	619
Certificates of Title received for roads -----	627
Certificates of Title received for lands given for public purposes under Departmental Regulations regarding subdivisions -----	13
Certificates of Title of sites for public buildings-----	8
Certificates of Title received for land other than surveyed roads (areas cut off by surveyed roads) -----	6
Transfers issued covering roads no longer required -----	181
Number of Plans of subdivision approved during 1918-----	26

LEASE OF ROAD ALLOWANCES.

Number of new applications to lease road allowances	174
Number of new applications granted	58
Number of leases granted during the year 1918 (including free leases issued as compensation for surveyed roads)	227

EXPENDITURE OF SURVEYS BRANCH FOR THE YEAR 1918.

General expenses of surveys	\$70,195.55
Alberta and B. C. Boundary survey	6,165.40
Compensation for surveyed roads	7,495.47
Printing	1,261.37
Survey posts	2,421.58
Sundries	1,306.67
	<hr/>
	\$88,846.04

INCOME OF SURVEYS BRANCH FOR THE YEAR 1918.

Fees received in respect of plans of subdivisions submitted	\$2,474.25
Rental from road allowance leases	825.25
Sundry fees from sale of maps, diagrams, etc.	97.57
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	\$3,397.07

EDMONTON, December 6, 1918.

A. P. C. BELYEA,

Assistant Director of Surveys,

Edmonton.

SIR,—I have the honour to submit herewith a detailed report of the survey work in my district during the year 1918.

My party was organized the first of May and left Edmonton on the third of the month, moving first to Carvel. From there we worked west through Duffield, Keephills, Tomahawk and Entwistle. From Entwistle we moved back to Stony Plain and from there worked south past Telfordville, Conjuring Lake, Pigeon Lake and through the Blindman Valley, and thence north of Gull Lake to Buffalo Lake. During the autumn we completed the surveys in the Meeting Creek and Battle River Valleys and finished up the season around Miquelon Lake and Cooking Lake.

I attach hereto a classified list of the season's work.

Your obedient servant,

MILTON BROWN,

District Surveyor and Engineer.

DIVERSIONS.

Survey No.	File No.	Location.
343-18	24753	Sections 17, 18 and 20, Tp. 39-21-4.
667-18	25182	Sections 3 and 11, Tp. 39-21-4.
775-18	25230	Sections 20, 21 and 29, Tp. 39-21-4.
54-18	24340	Sections 13 and 14, Tp. 40-21-4.
339-18	24743	Section 8, Tp. 40-18-4.
772-18	25227	Sections 7 and 8, Tp. 41-18-4.
121-18	24572	Section 20, Tp. 41-18-4.

DEPARTMENT OF PUBLIC WORKS

No. Survey	No. File	Location.
773-18	25228	Section 5, Tp. 41-18-4.
186-18	16065-B	Section 10, Tp. 52-3-5.
391-18	24826	Section 2, Tp. 51-3-5.
771-18	25226	Section 6, Tp. 41-18-4 and Sec. 31, Tp. 40-18-4
341-18	15907-B	Section 19, Tp. 41-17-4.
776-18	25231	Section 30, Tp. 41-17-4.
120-18	24571	Sections 28 and 33, Tp. 42-18-4.
777-18	25253	Sections 18 and 19, Tp. 42-18-4.
340-18	24742	Section 18, Tp. 43-18-4.
660-18	25155	Section 21, Tp. 44-19-4.
844-18	25314	Section 11, Tp. 45-17-4.
105-18	18219	Section 23, Tp. 45-22-4.
106-18	24557	Section 15, Tp. 46-22-4.
116-18	24567	Section 21, Tp. 48-24-4.
115-18	24566	Section 4, Tp. 49-24-4.
659-18	25152	Sections 4 and 9, Tp. 48-25-4.
114-18	24565	Sections 10 and 11, Tp. 49-23-4.
216-18	24652	Section 15, Tp. 47-21-4.
693-18	20267	Section 1, Tp. 44-3-5.
110-18	24564	Sections 20 and 21, Tp. 42-21-4.
116-18	24614	Sections 3 and 4, Tp. 39-21-4.
344-18	24754	Sections 8, 9 and 17, Tp. 39-21-4.
51-18	24523	} Section 31, Tp. 50-27-4.
52-18	24524	
40-18	24513	Sections 33 and 34, Tp. 47-27-4.
41-18	24514	Section 2, Tp. 47-28-4.
396-17	20214	Sections 25 and 36, Tp. 52-2-5.
439-17	24127	Section 16, Tp. 44-18-4.
644-17	24261	Sections 16, 21 and 22, Tp. 45-17-4.
643-17	24260	Section 3, Tp. 45-17-4.
847-17	24462	Section 22, Tp. 48-22-4.
846-17	21517	Section 13, Tp. 48-22-4.
641-17	24266	Section 17, Tp. 44-3-5.
640-17	24265	Section 15, Tp. 44-3-5.
639-17	24264	Section 11, Tp. 44-3-5.
638-17	24262	Section 1, Tp. 44-3-5.
637-17	20576	Section 9, Tp. 44-3-5.
551-17	21290	Sections 22, 26 and 27, Tp. 42-28-4.
608-16	23509	Section 26, Tp. 52-3-5.
554-16	19138-D	Section 1, Tp. 52-3-5.
498-16	23472	Section 12, Tp. 48-16-4.

NEW ROADS.

72-18	23822	Blind line, Secs. 26 and 35, Tp. 39-19-4.
211-18	24636	Along the quarter line, Secs. 27 and 34, Tp. 39-16-4.
10-18	24463	Sec. 30, Tp. 52-2-5 to Duffield, and Secs. 25 and 26, Tp. 52-3-5.
131-18	21807-B	Secs. 1, 2, 10, 11 and 12, Tp. 51-3-5 to Govt. Ferry.
50-18	15379	Blind line, Secs. 30 and 31, Tp. 50-27-4, Secs. 25 and 26, Tp. 50-28-4.
635-15	22931	Sec. 13, Tp. 52-7-5 along the quarter line.
476-18	17886-C	Blind line, Secs. 15 and 22, Tp. 44-17-4.
250-18	14125-D	Sec. 6, Tp. 49-21-4, extension of Main street at Hay Lake.
735-18	16236-B	Along the quarter line, Sec. 29, Tp. 47-21-4.
643-18	25139	Secs. 20, 21 and 28, Tp. 49-20-4 to Government Bridge at Miquelon Lake.
353-18	16190-D	Blind line, Secs. 13 and 24, Tp. 51-28-4.
415-17	15933-C	Section 14, Tp. 46-19-4 to Ohaton.
645-17	24282	Sec. 6, Tp. 52-21-4 around Half Moon Lake.
361-17	23309	Secs. 14 and 23, Tp. 46-28-4, through Pigeon Lake Indian Reserve.
8-17	18416	Secs. 20 and 29, Tp. 43-2-5.
582-17	23749	Secs. 2, 3 and 10, Tp. 42-2-5 to Rimbey.
496-16	23469	Along the quarter line, Sec. 17, Tp. 46-16-4.
4-16	21917	Sec. 12, Tp. 44-2-5 and Sec. 7, Tp. 44-1-5.
510-16	23534	Townships 50 and 51, Range 6, W. 5th Mer., to Government Ferry.

CHANGES IN SURVEYED ROADS OR ROAD DIVERSIONS.

Survey No.	File No.	Location
338-18	19216-B	Sec. 29, Tp. 41-18-4.
774-18	25229	Sec. 30, Tp. 41-18-4.
184-18	14477-B	Sec. 23, Tp. 45-22-4.
42-18	14159-A	Sec. 13, Tp. 46-24-4
87-18	14771-B	Sec. 36, Tp. 49-2-5.
171-18	24622	Sec. 13, Tp. 40-19-4 and Secs. 18 and 19, Tp. 40-18-4.
867-18	14110-B-4	Sec. 2, Tp. 47-24-4.
394-17	21827-B	Sec. 34, Tp. 52-2-5.
395-17	18571-B	Sec. 12, Tp. 52-2-5.

MISCELLANEOUS.

863-18	23416	Secs. 33 and 34, Tp. 45-2-4, established section corner.
134-18	24584	Sec. 21, Tp. 46-21-4, private road.
348-18	24558	Sec. 8, Tp. 46-22-4, private road.
738-18	24894	Sec. 18, Tp. 45-22-4, private road.
664-18	16396	Sec. 19, Tp. 48-24-4, private road.
26-18	24506	Sec. 28, Tp. 50-1-5, private road.
95-18	24472	Sec. 10, Tp. 49-27-4, private road.
182-17	14392-B	Sec. 8, Tp. 50-24-4, private road.
32-18	23464	Sec. 24, Tp. 39-19-4, erected monuments.

EXAMINATIONS.

462-18	24895	Sec. 3, Tp. 45-24-4.
33-17	23755	Secs. 35 and 36, Tp. 47-17-4.
642-17	24259	Sec. 14, Tp. 45-17-4.
546-17	24249	Sec. 28, Tp. 51-3-5.
90-16	19138-B	Sec. 36, Tp. 51-3-5.
497-16	23470	Secs. 17 and 20, Tp. 46-17-4.
499-16	23510	Sec. 11, Tp. 48-16-4.
491-16	23471	Secs. 3, 4 and 9, Tp. 48-18-4.

EDMONTON, December 24, 1918.

A. P. C. BELYEA,

Assistant Director of Surveys,

Edmonton, Alberta.

SIR,—I have the honour to submit the following report in connection with survey work in the district north and east of Edmonton during the season of 1918.

I organized my party in Edmonton and commenced field work in St. Albert Settlement on May 1st. I then moved in an easterly and northerly direction as far as Saddle Lake Indian Reserve. Then returning westerly through Smoky Lake and Radway Centre. I crossed the A. & G.W. Ry. at Thorhild, the C.N. Ry. at Clyde and the E. D. & B. C. Ry. at Westlock. After working westerly as far as Range 3, west of the Fifth Meridian, I returned by way of Westlock and Clyde and proceeded northerly to Athabasca.

On September 10th I commenced a re-survey of the old Athabasca Edmonton trail. I completed this work from Athabasca to the northerly boundary of Sec. 12, Tp. 61, 24-4.

I reached Edmonton and disbanded my party on November 7th.

Although the weather was fairly suitable for survey work, some difficulty was experienced in obtaining suitable help.

Attached hereto is a detailed list of the work done, and classified as New Roads, Road Diversions, Examinations, Changes in Existing Surveys, Miscellaneous Surveys and Re-surveys.

Sketch plans and reports were submitted as the season advanced. The final returns and plans are now being prepared.

Your obedient servant,

HOMER P. KEITH,

District Surveyor and Engineer.

NEW ROADS.

Survey No.	File No.	Location.
174-14	21509	Sec. 5-61-3-5.
196-14	21544	Secs. 1, 2, 10, 11, Tp. 63-24-4.
696-14	22056	Sec. 31, Tp. 59-15-4.
841-15	23000	Sec. 27, Tp. 60-18-4.
46-16	21597-B	Between Secs. 17 and 20, Tp. 59-22-4.
259-16	23336	Secs. 2, 3, 10 and 15, Tp. 67-23-4.
296-16	23363	Secs. 25 and 26, Tp. 61-25-4.
371-16	22861	Around North and E. of Birch Lake, Tps. 56 and 57-22-4.
664-16	23643	Secs. 22, 23, 24, Tp. 64-22-4.
665-16	23644	W. ½ Sec. 6, Tp. 65-22-4.
674-16	23642	Secs. 25 and 26, Tp. 64-22-4.
682-16	21542-B	Secs. 6 and 7, Tp. 62-23-4.
196-17	21137-B	Secs. 34 and 27, Tp. 57-14-4.
114-17	23851	Sec. 10, Tp. 61-1-5.
214-17	23751	S. side Sturgeon Lake, Sec. 22, Tp. 55-22-4.
208-17	23930	Sec. 1, Tp. 59-14-4.
250-17	23647	Sec. 1, Tp. 59-15-4 and Sec. 6, Tp. 59-16-4.
429-17	24118	Secs. 13 and 24, Tp. 58-13-4.
506-17	24180	Secs. 17, 18, 19, Tp. 60-18-4.
509-17	24192	Secs. 15 and 22, Tp. 60-17-4.
511-17	24194	Secs. 30 and 31, Tp. 60-16-4.
577-17	15224	Lots 10 and 12, Fort Saskatchewan Settlement.
745-17	24384	Sec. 34, Tp. 61-3-5.
748-17	23872	Secs. 19 and 20, Tp. 60-2-5, and Sec. 24, Tp. 60-3-5.
479-18	24897	Secs. 35 and 36, Tp. 58-23-4.
590-18	24985	Secs. 1, 12 and 13, Tp. 61-24-4.
591-18	24986	Secs. 14, 23 and 26, Tp. 61-24-4.
663-18	23175	Sec. 6, Tp. 61-24-4 and Sec. 1, Tp. 61-25-4.
696-18	24575	Sec. 24, Tp. 23-1-4.
721-18	25197	Secs. 25 and 36, Tp. 60-24-4.
736-18	25102	Secs. 24 and 25, Tp. 62-24-4.
768-18	22989	Sec. 2, Tp. 60-2-5.
810-18	25287	Secs. 31, 32, 33, Tp. 64-22-4.
857-18	25316	Sec. 10, Tp. 63-23-4.
876-18	25336	Secs. 19 and 20, Tp. 68-21-4.

ROAD DIVERSIONS.

535-15	22666	Sec. 1, Tp. 58-14-4, and Sec. 6, Tp. 58-13-4.
244-16	23185	Sec. 19, Tp. 61-23-4.
282-16	23315	Secs. 19 and 25, Tp. 60-24-4.
370-16	23423	Secs. 35 and 36, Tp. 60-21-4.
379-16	23082	Secs. 9 and 10, Tp. 59-23-4.
666-16	23645	Secs. 7 and 8, Tp. 65-22-4.
668-16	23629	Secs. 4 and 5, Tp. 59-24-4.
694-16	23668	Sec. 18, Tp. 60-16-4.
699-16	23669	Sec. 11, Tp. 65-22-4.
70-17	23715	Sec. 14, Tp. 60-19-4.
77-17	23790	Secs. 20 and 29, Tp. 57-22-4.
141-17	23879	Secs. 6 and 7, Tp. 60-20-4.
198-17	23920	Sec. 27, Tp. 58-15-4.
199-17	23921	Sec. 16, Tp. 58-14-4.
202-17	23924	Secs. 25 and 26, Tp. 57-14-4.

Survey No.	File No.	Location.
204-17	23926	Secs. 5 and 6, Tp. 59-13-4.
205-17	23927	Secs. 8, 9, 16 and 17, Tp. 59-13-4.
206-17	23928	Secs. 13, 14, 23 and 24, Tp. 59-13-4.
207-17	23929	Secs. 32 and 33, Tp. 59-15-4.
210-17	23932	Sec. 6, Tp. 59-15-4.
251-17	23704	Sec. 26, Tp. 56-23-4.
428-17	24117	Sec. 32, Tp. 58-13-4.
430-17	24119	Sec. 14, Tp. 58-13-4.
431-17	24120	Secs. 2 and 3, Tp. 58-13-4.
485-17	24131	Sec. 23, Tp. 59-2-5.
499-17	22613	Secs. 14 and 15, Tp. 59-16-4.
500-17	24032	Sec. 19, Tp. 60-17-4.
505-17	21514	Sec. 25, Tp. 58-18-4.
507-17	24190	Sec. 3, Tp. 60-18-4.
510-17	24193	Sec. 21, Tp. 60-17-4.
670-17	24329	Sec. 23, Tp. 57-21-4.
819-17	24413	R. Lot 27, St. Albert Settlement.
30-18	20025	Sec. 6, Tp. 58-21-4.
99-18	24554	Sec. 31, Tp. 58-1-5.
109-18	24559	Sec. 34, Tp. 60-26-4.
173-18	23801-B	Sec. 13, Tp. 23-1-4.
396-18	22669	Secs. 18 and 19, Tp. 58-13-4.
406-18	24839	Sec. 16, Tp. 60-15-4.
407-18	24840	Secs. 23 and 26, Tp. 59-15-4.
478-18	24904	Sec. 20, Tp. 60-26-4.
799-18	25284	Sec. 25, Tp. 66-24-4.
800-18	25285	Secs. 24 and 25, Tp. 67-22-4.
807-18	25289	Secs. 21, 22, 27, Tp. 63-23-4.
808-18	25290	Sec. 17, Tp. 63-23-4.
809-18	25288	Secs. 24 and 25, Tp. 64-23-4.
823-18	25295	Sec. 26, Tp. 63-23-4.
866-18	25330	Sec. 36, Tp. 62-24-4.

EXAMINATIONS.

208-15	17953	Secs. 27 and 34, Tp. 58-20-4.
300-15	22541	Tp. 58-24-4 (drain).
869-15	22936	Sec. 25, Tp. 58-19-4.
893-15	20374	Sec. 5, Tp. 60-3-5.
253-16	23338	N.W. Sec. 36, Tp. 54-25-4.
62-17	23600	N.E. Sec. 36, Tp. 60-25-4.
69-17	23711	Secs. 5 and 32, Tps. 59 and 58-15-4.
71-17	23716	N.E. Sec. 22, Tp. 60-21-4.
200-17	23922	Sec. 33, Tp. 58-14-4.
203-17	23925	Secs. 29 and 32, Tp. 57-14-4.
209-17	23931	Secs. 2 and 3, Tp. 59-14-4.
504-17	24187	Sec. 32, Tp. 59-17-4.
508-17	24191	Sec. 2, Tp. 60-18-4.
512-17	24206	Sec. 26, Tp. 59-17-4.
718-17	24358	Sec. 16, Tp. 61-24-4.
727-17	24361	Sec. 12, Tp. 65-23-4.
305-18	24726	Secs. 1 and 12, Tp. 58-17-4.
597-18	23237	Secs. 13 to 17, Tp. 62-24-4.
723-18	25196	Sec. 3, Tp. 62-24-4.
724-18	25199	Sec. 16, Tp. 62-23-4.

CHANGES IN EXISTING SURVEYS.

202-14	22380	Sec. 22, Tp. 59-2-5.
166-16	20374	Sec. 32, Tp. 59-3-5.
629-17	21071-B	Sec. 7, Tp. 60-17-4.
777-17	20647-B	Bet. Secs. 26/35 and 25/36, Tp. 58-27-4.

MISCELLANEOUS SURVEYS.

240-16	23318	Cemetery site S.W. 24, Tp. 61-24-4.
878-18	14023-B	Survey for transfer Sec. 25, Tp. 59-24-4.

RE-SURVEYS.

877-18	14114	Resurvey of Edmonton-Athabasca trail from Sec. 5, Tp. 66-22-4 to Sec. 12, Tp. 61-24-4.
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EDMONTON, December 12, 1918.

A. P. C. BELYEA,

Assistant Director of Surveys,

Edmonton, Alberta.

SIR,—I have the honour to submit the following report in connection with survey work in the district north and east of Edmonton during the season 1918.

I organized my party during the first week of May and moved easterly through Clover Bar and thence to the district north of the Canadian Northern Railway. Considerable work was done in the vicinity of Desjarlais and Shalka and also around Plain Lake. All outstanding work south of the Saskatchewan River in ranges 6 to 15 inclusive north of township 47, and in ranges 16 to 24 inclusive north of township 52 was completed with the exception of a few surveys asked for in the latter part of the season.

I disbanded my party on the 26th of November.

The past season was an excellent one for survey work, the roads owing to dry weather being in first class condition.

Attached is a list of work done, classified as Diversions, New Roads, Changes in Existing Roads, Miscellaneous and Examinations.

Your obedient servant,

HARRY S. DAY,

District Surveyor and Engineer.

DIVERSIONS.

Survey No.	File No.	Location.
126-15	22404	In N.W. $\frac{1}{4}$ Sec. 11, Tp. 56-14-4.
127-15	22403	In S.E. $\frac{1}{4}$ Sec. 14, Tp. 56-14-4.
215-15	22474	Secs. 1, 2, 11, 13, 23 and 24, Tp. 53-12-4.
216-15	22473	In Secs. 3 and 4, Tp. 54-12-4.
472-15	22702	In N.W. $\frac{1}{4}$ Sec. 36, Tp. 54-18-4.
565-15	22787	In Secs. 7 and 16, Tp. 56-13-4.
568-15	22756	In S. E. $\frac{1}{4}$ Sec. 10, Tp. 53-13-4.
12-16	14770	In Secs. 23 and 24, Tp. 54-13-4.
122-16	23232	In S.W. $\frac{1}{4}$ Sec. 4, Tp. 57-13-4.
123-16	23234	In Secs. 20 and 29, Tp. 56-13-4.
124-16	23233	In Secs. 2 and 11, Tp. 57-13-4.
125-16	23235	In Secs. 26 and 35, Tp. 56-13-4.
126-16	23231	In Secs. 5 and 8, Tp. 57-13-4 and E. $\frac{1}{2}$ Sec. 31, Tp. 56-13-4.
127-16	23236	In Secs. 5, 6, 18 and 19, Tp. 56-12-4.
191-16	23282	In Secs. 12 and 13, Tp. 55-12-4.
192-16	23280	In Secs. 5, 8, 9, 21, 32 and 33, Tp. 53-11-4.
193-16	23281	In S.W. $\frac{1}{4}$ Sec. 3, Tp. 54-11-4 and N.E. $\frac{1}{4}$ Sec. 33, Tp. 53-11-4.
603-16	23581	In W. $\frac{1}{2}$ Sec. 11, Tp. 55-13-4.
604-16	23594	In E. $\frac{1}{2}$ Sec. 8, Tp. 57-14-4.
605-16	23604	In N.E. $\frac{1}{4}$ Sec. 36, Tp. 56-14-4.
44-17	23780	In W. $\frac{1}{2}$ Sec. 3, Tp. 49-7-4.
73-17	23781	In Secs. 24, 26 and 35, Tp. 56-13-4.
120-17	23841	In N.E. $\frac{1}{4}$ Sec. 15, Tp. 52-7-4.
121-17	23842	In Secs. 11 and 12, Tp. 52-7-4.
171-17	23898	In Secs. 5 and 8, Tp. 53-11-4.
174-17	23901	In N.W. $\frac{1}{4}$ Sec. 23, Tp. 53-12-4.
175-17	23902	In S.E. $\frac{1}{4}$ Sec. 11, Tp. 54-12-4.
278-17	20371	In S. $\frac{1}{2}$ Sec. 28, Tp. 53-13-4.

Survey No.	File No.	Location.
279-17	23985	In S.W. $\frac{1}{4}$ Sec. 17, Tp. 53-15-4.
631-17	24273	In S.W. $\frac{1}{4}$ Sec. 16, Tp. 53-19-4.
731-17	24364	In E. $\frac{1}{2}$ Sec. 1, Tp. 51-10-4.
822-17	24445	In Secs. 16, 27 and 34, Tp. 49-9-4.
823-17	24446	In S.W. $\frac{1}{4}$ Sec. 27, Tp. 48-8-4.
824-17	24447	In W. $\frac{1}{2}$ Sec. 31, Tp. 49-7-4.
825-17	24448	In S.W. $\frac{1}{4}$ Sec. 19, Tp. 49-7-4.
826-17	24449	In W. $\frac{1}{2}$ Sec. 21, Tp. 49-8-4.
827-17	24450	In N.W. $\frac{1}{4}$ Sec. 5, Tp. 49-8-4.
829-17	24452	In S.E. $\frac{1}{4}$ Sec. 25, Tp. 49-7-4.
830-17	24453	In W. $\frac{1}{2}$ Sec. 12, Tp. 49-7-4.
832-17	24455	In W. $\frac{1}{2}$ Sec. 18, Tp. 49-8-4, and N.E. $\frac{1}{4}$ Sec. 13, Tp. 49-9-4.
837-17	14615-B	In River Lot 45, Edmonton Settlement.
11-18	24491	In N.E. $\frac{1}{4}$ Sec. 33, Tp. 54-13-4.
88-18	24547	In S.E. $\frac{1}{4}$ Sec. 2, Tp. 57-15-4.
130-18	24581	In W. $\frac{1}{2}$ Sec. 7, Tp. 57-12-4.
135-18	21497	In S.W. $\frac{1}{4}$ Sec. 11, Tp. 53-22-4.
137-18	16083-B	In N.W. $\frac{1}{4}$ Sec. 5, Tp. 54-13-4.
138-18	24586	In Secs. 8 and 17, Tp. 54-17-4.
139-18	24587	In N.W. $\frac{1}{4}$ Sec. 20, Tp. 54-17-4.
140-18	24588	In N.E. $\frac{1}{4}$ Sec. 25, Tp. 54-18-4, and N.W. $\frac{1}{4}$ Sec. 19, Tp. 54-17-4.
154-18	24601	In W. $\frac{1}{2}$ Sec. 35, Tp. 53-11-4.
155-18	24602	In W. $\frac{1}{2}$ Sec. 23, Tp. 53-11-4.
156-18	24603	In S.W. $\frac{1}{4}$ Sec. 3, Tp. 53-11-4.
157-18	24605	In N.E. $\frac{1}{4}$ Sec. 6, Tp. 54-11-4.
159-18	24607	In S.W. $\frac{1}{2}$ Sec. 11, Tp. 54-11-4.
163-18	24611	In S.E. $\frac{1}{4}$ Sec. 13, Tp. 55-13-4.
166-18	24604	In S.E. $\frac{1}{4}$ Sec. 4, Tp. 53-11-4.
167-18	21577-B	In E. $\frac{1}{2}$ Sec. 34, Tp. 53-12-4.
168-18	20143-B	In N.E. $\frac{1}{4}$ Sec. 31, Tp. 53-12-4.
169-18	17957-C	In S.E. $\frac{1}{4}$ Sec. 31, Tp. 53-12-4.
177-18	24633	In N.E. $\frac{1}{4}$ Sec. 1, Tp. 54-13-4, and N.W. $\frac{1}{4}$ Sec. 7, Tp. 54-12-4.
190-18	24637	In S.E. $\frac{1}{4}$ Sec. 26, Tp. 49-6-4.
195-18	24618	In W. $\frac{1}{2}$ Sec. 26, Tp. 48-12-4.
196-18	24619	In S.W. $\frac{1}{4}$ Sec. 7, Tp. 48-11-4, and E. $\frac{1}{2}$ Sec. 12, Tp. 48-12-4.
225-18	20661	In E. $\frac{1}{2}$ Sec. 31, Tp. 51-8-4.
226-18	24667	In S.E. $\frac{1}{4}$ Sec. 27, Tp. 52-7-4.
227-18	24668	In E. $\frac{1}{2}$ Sec. 17, Tp. 52-7-4.
229-18	24664	In N.W. $\frac{1}{4}$ Sec. 7, Tp. 51-8-4.
230-18	24665	In S.E. $\frac{1}{4}$ Sec. 14, Tp. 50-9-4.
231-18	24666	In N.W. $\frac{1}{4}$ Sec. 26, Tp. 51-8-4.
232-18	24670	In S.E. $\frac{1}{4}$ Sec. 18, Tp. 50-9-4.
242-18	24678	In N.E. $\frac{1}{4}$ Sec. 7, Tp. 48-11-4.
253-18	22178	In Secs. 26, 27 and 35, Tp. 53-23-4.
263-18	24687	In W. $\frac{1}{2}$ Sec. 34, Tp. 49-12-4.
287-18	24713	In S. $\frac{1}{2}$ Sec. 1, Tp. 54-23-4.
309-18	24729	In S.W. $\frac{1}{4}$ Sec. 27, Tp. 49-6-4.
347-18	24768	In E. $\frac{1}{2}$ Sec. 8, Tp. 54-17-4.
408-18	24838	In S.E. $\frac{1}{4}$ Sec. 18, Tp. 56-13-4.
438-18	24881	In Secs. 3 and 10, Tp. 56-14-4.
441-18	24867	In Secs. 19 and 30, Tp. 56-12-4.
473-18	24885	In S.E. $\frac{1}{4}$ Sec. 21, Tp. 50-6-4.
481-18	24925	In N.W. $\frac{1}{4}$ Sec. 31, Tp. 56-12-4.
487-18	24912	In S.E. $\frac{1}{4}$ Sec. 19, Tp. 51-15-4.
534-18	24973	In S.W. $\frac{1}{4}$ Sec. 29, Tp. 55-11-4.
535-18	24974	In N. $\frac{1}{2}$ Sec. 8, Tp. 55-11-4.
575-18	24993	In N.E. $\frac{1}{4}$ Sec. 13, Tp. 50-13-4.
576-18	24994	In N.W. $\frac{1}{4}$ Sec. 31, Tp. 50-12-4.
577-18	24995	In N.E. $\frac{1}{4}$ Sec. 11, Tp. 51-12-4.
578-18	16046-B	In Secs. 28 and 29, Tp. 51-11-4.
579-18	24996	In N.E. $\frac{1}{4}$ Sec. 34, Tp. 52-12-4.
580-18	24997	In N.W. $\frac{1}{4}$ Sec. 11, Tp. 52-12-4.
581-18	24998	In Secs. 1, 2 and 11, Tp. 52-12-4.
582-18	24999	In N.W. $\frac{1}{4}$ Sec. 27, Tp. 51-11-4.
601-18	25113	In W. $\frac{1}{2}$ Sec. 26, Tp. 56-14-4.
612-18	25117	In E. $\frac{1}{2}$ Sec. 17, Tp. 52-9-4.

DEPARTMENT OF PUBLIC WORKS

Survey No.	File No.	Location.
727-18	25202	In N. $\frac{1}{2}$ Sec. 33, Tp. 49-8-4.
778-18	25276	In N.E. $\frac{1}{4}$ Sec. 9, Tp. 51-9-4.
779-18	25277	In E. $\frac{1}{2}$ Sec. 19, Tp. 51-6-4.
780-18	25282	In S.W. $\frac{1}{4}$ Sec. 27, Tp. 50-6-4.
782-18	25249	In N.E. $\frac{1}{4}$ Sec. 3, Tp. 50-9-4.
783-18	25250	In S.E. $\frac{1}{4}$ Sec. 15, Tp. 50-9-4.
784-18	25251	In N.E. $\frac{1}{4}$ Sec. 21, Tp. 50-9-4.
785-18	25262	In Secs. 31 and 32, Tp. 51-9-4.
786-18	25263	In N.E. $\frac{1}{4}$ Sec. 7, Tp. 51-9-4.
781-18	25283	In N.W. $\frac{1}{4}$ Sec. 23, Tp. 50-6-4.
795-18	25279	In S.W. $\frac{1}{4}$ Sec. 29, Tp. 52-13-4.
804-18	25219	In W. $\frac{1}{2}$ Sec. 5, Tp. 53-13-4.
806-18	25286	In N.W. $\frac{1}{4}$ Sec. 19, Tp. 50-6-4.
827-18	25296	In E. $\frac{1}{2}$ Sec. 16, Tp. 50-8-4.
828-18	25297	In S.E. $\frac{1}{4}$ Sec. 1, Tp. 50-8-4, and N.W. $\frac{1}{4}$ Sec. 36, Tp. 49-8-4.
829-18	25298	In Secs. 1 and 2, Tp. 49-9-4, and N.E. $\frac{1}{4}$ Sec. 35, Tp. 48-9-4.
836-18	25305	In S.W. $\frac{1}{4}$ Sec. 16, Tp. 50-11-4.
842-18	24720	In N.E. $\frac{1}{4}$ Sec. 10, Tp. 50-11-4.
851-18	25318	In N.W. $\frac{1}{4}$ Sec. 7, Tp. 50-10-4.
852-18	25319	In Secs. 3, 10, 15, 23 and 35, Tp. 49-10-4.
868-18	25331	In N.E. $\frac{1}{4}$ Sec. 35, Tp. 51-15-4.
901-18	23957	In S.E. $\frac{1}{4}$ Sec. 1, Tp. 51-11-4.
907-18	16033-B	In S.W. $\frac{1}{4}$ Sec. 10, Tp. 51-11-4.
916-18	25371	In S.E. $\frac{1}{4}$ Sec. 35, Tp. 50-6-4.

NEW ROADS.

209-15	17957-B	Between Secs. 26 and 35, Tp. 53-12-4.
595-16	18649-B	Along east and west quarter line, Sec. 13, Tp. 55-14-4.
602-16	23580	Along east and west quarter line, Sec. 17, Tp. 55-13-4.
301-17	24000	Through Sec. 6, Tp. 50-5-4.
162-18	24610	Through Sec. 29, Tp. 53-12-4.
170-18	18916-B	In Secs. 17, 20 and 21, Tp. 53-12-4.
391-18	20424	Between Secs. 17 and 20, Tp. 57-14-4.
574-18	24991	Between Secs. 1 and 12, 2 and 11, Tp. 52-10-4.
583-18	24992	In Secs. 15, 16, 17, 18, 19, 20, 21 and 22, Tp. 50-10-4.
853-18	25320	Between Secs. 3 and 10, Tp. 50-11-4.

CHANGES.

19-15	21293	In Secs. 1, 2, 11 and 12, Tp. 57-13-4.
561-16	17780-B	In N.W. $\frac{1}{4}$ Sec. 15, Tp. 50-6-4.
590-16	14704	In N.E. $\frac{1}{4}$ Sec. 19, Tp. 56-15-4.
74-17	23782	In N. $\frac{1}{2}$ Sec. 35, Tp. 56-15-4.
736-17	18993-B	In S.W. $\frac{1}{4}$ Sec. 13, Tp. 56-15-4.
58-18	23285	In S. $\frac{1}{2}$ Sec. 15, Tp. 55-11-4.
769-18	15643-B	In Secs. 24 and 25, Tp. 51-12-4.

EXAMINATIONS.

14-15	21930	In N.W. $\frac{1}{4}$ Sec. 22, Tp. 53-12-4.
217-15	22472	Between Secs. 22 and 27, Tp. 54-12-4.
299-15	21561	North Sec. 6, Tp. 55-13-4.
845-15	23017	West Sec. 30, Tp. 54-16-4.
601-16	23579	Between Secs. 29 and 30, Tp. 50-13-4.
318-17	14134	Through Secs. 2, 3 and 4, Tp. 57-17-4.
336-17	24038	In Secs. 33 and 34, Tp. 50-6-4.
630-17	24271	Between Secs. 13 and 18, Tp. 57-15/16-4.
821-17	24444	Between Secs. 35 and 36, Tp. 49-9-4.
141-18	24589	In N.W. $\frac{1}{4}$ Sec. 7, Tp. 53-18-4.
158-18	24606	Between Secs. 9 and 16, Tp. 54-11-4.
160-18	24608	South Sec. 15, Tp. 53-12-4.
161-18	24609	West Secs. 17 and 20, Tp. 53-12-4.
164-18	24612	West Sec. 4, Tp. 55-11-4.
165-18	24613	East Sec. 34, Tp. 55-11-4.
193-18	15170-B	Between Secs. 35 and 36, Tp. 48-12-4.
194-18	24617	In S.E. $\frac{1}{4}$ Sec. 27, Tp. 48-12-4.
203-18	24616	In W. $\frac{1}{2}$ Sec. 19, Tp. 49-12-4.
228-18	24669	Between Secs. 27 and 28, Tp. 50-9-4.
345-18	24760	In N.W. $\frac{1}{4}$ Sec. 5, Tp. 49-11-4.
346-18	24759	N.E. $\frac{1}{4}$ Sec. 12, Tp. 49-12-4.

Survey No.	File No.	Location.
403-18	20784	Between Secs. 10 and 15, Tp. 56-14-4.
606-18	22823-B	In Sec. 9, Tp. 49-11-4.

MISCELLANEOUS.

262-18	14067-1	Between Secs. 1 and 2, Tp. 51-11-4.
70-18	23284	Check on existing survey in E. $\frac{1}{2}$ Sec. 8, Tp. 55-11-4.

CALGARY, December 16, 1918.

A. P. C. BELYEA,

Assistant Director of Surveys,

Edmonton, Alberta.

SIR,—I have the honour to submit the following general report showing the different surveys made in the district of Medicine Hat during the season of 1918.

I organized my party at Youngstown on May 3rd, and on the weather clearing I moved south of the Red Deer River and began work. Nearly the whole season was spent making surveys in the Redcliff and Medicine Hat districts.

The season was a dry one and exceedingly favourable for work.

The last work was done on November 20th and the party disbanded the next day.

Following is a list of the surveys made.

Your obedient servant,

GEORGE McMILLAN,

District Surveyor and Engineer.

NEW ROADS.

Survey No.	File No.	Location.
441-15	22458	Secs. 7 and 17, Tp. 9-8-4.
656-16	23638	S.W. $\frac{1}{4}$ 6, Tp. 7-7-4, and N.W. $\frac{1}{4}$ 31, Tp. 6-7-4.
724-16	16143-B	Secs. 35 and 26, Tp. 11-3-4.
177-17	23876	Secs. 15 and 22, 16 and 21 and 20, Tp. 22-2-4.
231-17	18819	N. $\frac{1}{2}$ 32, Tp. 12-1-4.
277-17	22803	Secs. 35 and 36, Tp. 18-10-4.
588-17	24203	Secs. 4 and 9, Tp. 1-2-4.
217-18	24653	N.E. $\frac{1}{4}$ 31 and N.W. $\frac{1}{4}$ 32, Tp. 7-6-4.
240-18	24676	Secs. 7 and 8, Tp. 16-3-4.
256-18	22933	Secs. 27 and 34, 28 and 33, 29 and 32, 30 and 31, Sec. 26, Tp. 22-1-4, also Secs. 36 and 25, Tp. 22-2-4.
277-18	24682	N.W. $\frac{1}{4}$ 23 and N. $\frac{1}{2}$ 26, Tp. 14-6-4.
336-18	24757	Secs. 3 and 4, Tp. 22-3-4.
349-18	24764	Secs. 23 and 26, 22 and 27, Tp. 5-6-4.
456-18	24772	Secs. 1 and 12, 2 and 11, 3 and 10, 4 and 9 and 5, Tp. 14-7-4.
522-18	24946	Sec. 8, Tp. 22-14-4.
531-18	24954	Secs. 3 and 10, 4 and 9, Tp. 18-7-4.
646-18	25160	Secs. 14, 15 and 22, 16 and 21, 17 and 20, 18 and 19, Tp. 17-7-4, and Secs. 13 and 24 and 14 and 23, Tp. 17-8-4.
647-18	25142	Sec. 31, Tp. 16-6-4.
669-18	21686	Secs. 16 and 9, Tp. 14-3-4.
672-18	25164	S.W. $\frac{1}{4}$ 18, Tp. 13-6-4.
685-18	25178	E. $\frac{1}{2}$ 11, Tp. 21-8-4.
686-18	25179	Sec. 31, Tp. 21-7-4, and Sec. 36, Tp. 21-8-4.

DEPARTMENT OF PUBLIC WORKS

Survey No.	File No.	Location.
702-18	25187	Sec. 6, Tp. 14-7-4.
715-18	25211	Secs. 7 and 8, Tp. 13-3-4.
716-18	25212	Sec. 24, Tp. 22-3-4.
722-18	25203	Secs. 6, 7, 8, 17, 16, 21, 22, 27, 34, 35, Tp. 2-1-4, and Secs. 2, 1, 12, Tp. 3-1-4.
729-18	25243	Secs. 8, 5, 4, Tp. 7-3-4, and Secs. 34 and 35. Tp. 6-3-4.
770-18	25192	Secs. 18, 17, 16, 15, 22 and 23, Tp. 13-11-4.
845-18	25315	S.E. $\frac{1}{4}$ 15, Tp. 9-1-4.
919-18	25372	Sec. 34, Tp. 22-7-4.
924-18	25382	S.E. $\frac{1}{4}$ 5, Tp. 12-2-4, and N. $\frac{1}{2}$ 32, Tp. 11-2-4.
958-18	25402	W. $\frac{1}{2}$ 27, Tp. 18-10-4.
961-18	25408	N.W. $\frac{1}{4}$ 21, Tp. 17-8-4.
965-18	25413	N. Sec. 29, Tp. 16-10-4.
960-18	25405	Secs. 26, 35 and N.E. $\frac{1}{4}$ 35, Tp. 12-4-4.
956-18	25399	Sec. 30, Tp. 9-7-4.
964-18	24780	Sec. 26, Tp. 22-2-4.
770-18	25192	Sec. 33, Tp. 12-12-4, and Sec. 4, Tp. 13-12-4.

ROAD DIVERSIONS.

98-14	21436	N.W. $\frac{1}{4}$ 21, Tp. 22-17-4.
48-15	22329	N.W. $\frac{1}{4}$ 36, N.E. $\frac{1}{4}$ 35, and S.W. $\frac{1}{4}$ 36, Tp. 12-3-4.
857-15	22995	W. $\frac{1}{2}$ 30, Tp. 13-2-4 and N.E. $\frac{1}{4}$ 25, 13-3-4.
722-16	23686	S.E. $\frac{1}{4}$ 36, N.E. $\frac{1}{4}$ 25 and S.E. $\frac{1}{4}$ 25, Tp. 9-1-4.
231-17	18819	N. $\frac{1}{2}$ 32, Tp. 12-1-4.
304-17	24004	N.W. $\frac{1}{4}$ 19, Tp. 18-8-4.
306-17	24006	S.E. $\frac{1}{4}$ 4, Tp. 16-9-4.
334-17	24019	N.W. $\frac{1}{4}$ 6, Tp. 10-9-4.
343-17	24055	N.E. $\frac{1}{4}$ 24, Tp. 12-3-4.
344-17	24054	S.W. $\frac{1}{4}$ 30, Tp. 12-2-4.
690-17	24308	N.W. $\frac{1}{4}$ 21, Tp. 13-9-4.
789-17	24416	N.E. $\frac{1}{4}$ 28, Tp. 32-15-4.
236-18	24672	S.W. $\frac{1}{4}$ 26, Tp. 17-7-4.
238-18	24674	N.W. $\frac{1}{4}$ 21 and S.W. $\frac{1}{4}$ 29, 18-7-4.
239-18	24675	S.W. $\frac{1}{4}$ 19 and N.E. $\frac{1}{4}$ 18, Tp. 18-7-4.
267-18	20623-B	N.E. $\frac{1}{4}$ 29, Tp. 10-7-4.
268-18	24688	S.E. $\frac{1}{4}$ 22, Tp. 11-3-4.
337-18	17650-B	N.E. $\frac{1}{4}$ 32, Tp. 21-3-4.
350-18	24765	Secs. 28 and 21, Tp. 4-6-4.
428-18	24856	Secs. 31 and 32, Tp. 13-7-4.
432-18	24852	N.E. $\frac{1}{4}$ 8 and S.W. $\frac{1}{4}$ 16, Tp. 17-8-4.
433-18	24853	S.W. $\frac{1}{4}$ 14, Tp. 17-8-4.
434-18	24854	S.W. $\frac{1}{4}$ 14, Tp. 18-7-4.
437-18	16416-B	Secs. 12 and 24, Tp. 16-6-4, and Sec. 18, Tp. 16-5-4.
442-18	24855	Secs. 2 and 3, Tp. 18-9-4.
478-17	24159	S.W. $\frac{1}{4}$ 33, Tp. 17-9-4.
517-18	16416-C	Sec. 31, Tp. 16-5-4; Sec. 6, Tp. 17-5-4 and Secs. 1 and 12, Tp. 17-6-4.
530-18	24953	S.E. $\frac{1}{4}$ 25, N.E. $\frac{1}{4}$ 24, Tp. 16-7-4, and N.W. $\frac{1}{4}$ 19, Tp. 16-6-4.
572-18	24958	S.W. $\frac{1}{4}$ 22, N.W. $\frac{1}{4}$ 15 and N.E. $\frac{1}{4}$ 16, Tp. 7-6-4.
648-18	25140	Sec. 6, Tp. 17-6-4.
649-18	25141	Sec. 24, Tp. 16-7-4, Sec. 18, Tp. 16-6-4.
670-18	25165	S.E. $\frac{1}{4}$ 26, Tp. 13-4-4.
671-18	25163	S.W. $\frac{1}{4}$ 13, Tp. 13-4-4.
681-18	25174	S.E. $\frac{1}{4}$ 28 and S.E. $\frac{1}{4}$ 21, Tp. 19-9-4.
682-18	25175	N.E. $\frac{1}{4}$ 33 and N.E. $\frac{1}{4}$ 16, Tp. 20-9-4.
683-18	25176	N.W. $\frac{1}{4}$ 32, Tp. 20-9-4.
684-18	25177	N.E. $\frac{1}{4}$ 36, Tp. 20-10-4.
687-18	25180	S.W. $\frac{1}{4}$ 7, Tp. 22-1-4.
688-18	25181	S.W. $\frac{1}{4}$ 27, Tp. 22-1-4.
713-18	25209	S.W. $\frac{1}{4}$ 36, Tp. 15-2-4.
714-18	25210	N.W. $\frac{1}{4}$ 7, Tp. 17-1-4.
717-18	25213	S.E. $\frac{1}{4}$ 15, Tp. 22-2-4.
718-18	25214	S.W. $\frac{1}{4}$ 15, Tp. 16-2-4.
719-18	25215	S.E. $\frac{1}{4}$ 5, Tp. 22-2-4.
732-18	25208	N.E. $\frac{1}{4}$ 17, Tp. 12-8-4.
788-18	25232	S.W. $\frac{1}{4}$ 27, Tp. 16-10-4.
789-18	25233	S.E. $\frac{1}{4}$ 24, Tp. 17-9-4.
790-18	25234	W. $\frac{1}{2}$ 26 and S.E. $\frac{1}{4}$ 22, Tp. 16-10-4.

Survey No.	File No.	Location.
791-18	25235	N.E. $\frac{1}{4}$ 35, Tp. 18-9-4.
792-18	25236	N.E. $\frac{1}{4}$ 21, Tp. 20-9-4.
861-18	25327	N.E. $\frac{1}{4}$ 24, Tp. 18-10-4.
871-18	25328	Secs. 33 and 34, Tp. 15-4-4 and Sec. 4, Tp. 16-4-4.
879-18	25339	N.W. $\frac{1}{4}$ 33, Tp. 15-8-4.
880-18	25340	N.E. $\frac{1}{4}$ 20 and S.E. $\frac{1}{4}$ 29, Tp. 16-8-4.
881-18	25341	S.W. $\frac{1}{4}$ 8, Tp. 16-8-4.
882-18	25342	W. $\frac{1}{2}$ 29, Tp. 17-8-4.
883-18	25343	N. $\frac{1}{2}$ 33, Tp. 17-8-4.
884-18	25344	S.W. $\frac{1}{4}$ 13, Tp. 17-9-4.
885-18	25345	S.W. $\frac{1}{4}$ 15 and S.E. $\frac{1}{4}$ 15, Tp. 17-7-4.
886-18	25346	S.W. $\frac{1}{4}$ 14, Tp. 18-9-4.
887-18	25347	N. $\frac{1}{2}$ 22, Tp. 18-9-4.
888-18	25348	N.W. $\frac{1}{4}$ 21, Tp. 18-9-4.
889-18	25349	N.W. $\frac{1}{4}$ 32, Tp. 19-10-4.
890-18	25350	N.W. $\frac{1}{4}$ 12, Tp. 17-10-4.
891-18	25351	S.E. $\frac{1}{4}$ 25, Tp. 16-10-4.
892-18	25352	N.E. $\frac{1}{4}$ 23, Tp. 16-10-4.
893-18	25353	N.E. $\frac{1}{4}$ 28, Tp. 20-9-4.
920-18	25373	N.E. $\frac{1}{4}$ 31, Tp. 11-2-4.
921-18	25374	S.W. $\frac{1}{4}$ 20, Tp. 22-7-4.
922-18	25377	N.W. $\frac{1}{4}$ 33, Tp. 11-2-4.
923-18	25378	S.W. $\frac{1}{4}$ 5, Tp. 22-7-4.
925-18	25385	E. $\frac{1}{2}$ 32, Tp. 9-1-4.
926-18	25386	S.E. $\frac{1}{4}$ 24 and N.E. $\frac{1}{4}$ 13, Tp. 11-1-4.
927-18	25387	S.E. $\frac{1}{4}$ 12 and N.W. $\frac{1}{4}$ 1, Tp. 11-1-4.
928-18	25388	S.W. $\frac{1}{4}$ 26, S.E. $\frac{1}{4}$ 27 and N.E. $\frac{1}{4}$ 22, Tp. 9-1-4.
931-18	23575	E. $\frac{1}{2}$ 16, Tp. 18-8-4.
932-18	23576	N.W. $\frac{1}{4}$ 31, Tp. 18-8-4.
923-18	25378	N.W. $\frac{1}{4}$ 5, Tp. 22-7-4.
952-18	25398	S.W. $\frac{1}{4}$ 34, Tp. 12-10-4.
954-18	25396	S.W. $\frac{1}{4}$ 18, Tp. 10-9-4.
953-18	25395	E. $\frac{1}{2}$ 29, Tp. 11-8-4.
962-18	25409	N.E. $\frac{1}{4}$ 19, N.W. $\frac{1}{4}$ 20, Tp. 21-17-4.
955-18	25397	N.W. $\frac{1}{4}$ 12, Tp. 21-17-4.
759-18	25225	S.W. $\frac{1}{4}$ 16, Tp. 21-16-4.
963-18	25410	N.W. $\frac{1}{4}$ 4 and S.W. $\frac{1}{4}$ 9, Tp. 17-10-4.

CHANGE IN SURVEY.

584-17	21997	Secs. 33 and 34, Tp. 21-9-4.
357-18	20491	S.W. $\frac{1}{4}$ 4, Tp. 22-12-4.
733-18	14765-B	Secs. 29 and 20, Tp. 8-4-4.
737-18	23290	Secs. 3 and 10, Tp. 17-12-4.
951-18	19072	S.E. $\frac{1}{4}$ 13, Tp. 7-7-4.

EXAMINATIONS.

621-16	23612	Sec. 5, Tp. 22-7-4.
1-18	23613	Sec. 34, Tp. 21-8-4.
35-18	23289	S.W. $\frac{1}{4}$ 4, Tp. 19-5-4.
103-18	24556	Secs. 6 and 7, Tp. 22-8-4.

LACOMBE, December 31, 1918.

A. P. C. BELYEA,

Assistant Director of Surveys,

Edmonton, Alberta.

SIR,—I have the honour to submit the following report in connection with the work performed by myself and party in the Lacombe Public Works District during the season of 1918.

The beginning of the year was spent in the office, completing the returns of the previous season's field work.

On May 1st I organized my party, composed of three men, and took the field. We moved toward the east and made a number of surveys in the vicinity of Alix. From here we moved to Stettler, thence south to Big Valley and Rumsey. After completing the surveys in this neighbourhood we pulled across to the west side of the Red Deer river to Trochu, then northward, making surveys at Huxley, Elnora, Lousana and Delburne. From here we moved toward Red Deer, thence west of Lacombe, and made surveys at Eckville and Leslieville for the balance of the season. We completed field work and pulled into headquarters and disbanded on November 15th.

The whole of the season was exceptionally favourable for field work, there was scarcely any rain and the trails were therefore exceedingly good.

The remainder of the year was spent in office work, preparing plans and field notes.

Attached hereto is a schedule showing the work done, and classified as New Roads, Road Diversions, Examinations and Drains.

Your obedient servant,

A. S. STEWART,

District Surveyor and Engineer.

NEW ROADS.

Survey No.	File No.	Location.
533-16	23542	New road between Secs. 3/10-33-20-4.
572-16	14250-F	New road in S. $\frac{1}{2}$ Sec. 11 and S.W. 12-39-24-4.
596-18	14635	New road in Secs. 4/9/10-43-25-4, change.
369-17	24078	New road in centre of Sec. 21-38-22-4.
741-17	20965	New road in Secs. 21/28-38-27-4.
743-17	21304	New road through Sec. 17-33-23-4.
802-17	24431	New road in Sec. 4-40-5-5.
21-18	24496	New road along blind south of Sec. 23-39-5-5.
49-18	14165-B	New road in S.E. 33-41-27-4.
96-18	21829	New road in Secs. 23/25/35-38-24-4.
128-18	23506	New road in N.E. 17-34-23-4.
178-18	16034-B	New road in Sec. 17-39-3-5.
260-18	23378	New road in N.E. 31 and N.W. 32-38-19-4.
334-18	24751	New road in N. $\frac{1}{2}$ Sec. 1-39-3-5.
597-18	24644	New road in Secs. 10/11-41-3-5.
812-18	25292	New road in N.E. 11-36-22-4.
843-18	22945	New road in Secs. 6/7-36-22-4.
860-18	25321	New road in Secs. 27/34-36-23-4.
874-18	24222-B	New road in Sec. 22-37-22-4.

DIVERSIONS.

244-14	21594	Road diversion in N.E. 24-40-5-5.
148-15	22398	Road diversion in N. $\frac{1}{2}$ Sec. 34-34-19-4 and S.W. 2-35-19-4.
528-15	22607	Road diversion in S.E. 3-41-23-4.
744-15	22857	Road diversion in Secs. 23/26-40-5-5.
47-16	23096	Road diversion in N.E. 3 and Sec. 11-35-19-4.
205-16	21156	Road diversion in S.W. 28 and W. $\frac{1}{2}$ Sec. 21-36-18-4.
338-16	23396	Road diversion in S.W. 16 and S.E. 17-39-25-4.
380-16	23397	Road diversion in Tps. 34 and 35, R. 20, W. 4.
530-16	23524	Road diversion in E. $\frac{1}{2}$ Sec. 33-34-18-4.
542-16	16280-B	Road diversion in S. $\frac{1}{2}$ Sec. 29-39-28-4.
611-16	23582	Road diversion in Secs. 3/10/15-34-18-4.
15-17	23785	Road diversion in N.W. 36-36-21-4 and S.W. 1-37-21-4.
267-17	23976	Road diversion in W. $\frac{1}{2}$ Sec. 1-38-20-4.
293-17	21186	Road diversion in S.W. 2-37-16-4.

Survey No.	File No.	Location.
357-17	22514	Road diversion in S.E. 13-41-3-5.
358-17	24058	Road diversion in S.E. 11-40-1-5.
450-17	24132	Road diversion in S.E. 33-37-20-4.
519-17	18728	Road diversion in S.W. 27-41-28-4.
528-17	17893-B	Road diversion in N.E. 11 and N.W. 12-34-21-4.
575-17	18178	Road diversion in N.E. 9, W. $\frac{1}{2}$ Sec. 10 and E. $\frac{1}{2}$ Sec. 16-37-17-4.
611-17	24221	Road diversion in S.W. 5-37-24-4.
613-17	24223	Road diversion in S.E. 9 and S.W. 10-36-23-4.
634-17	24257	Road diversion in N. $\frac{1}{2}$ Sec. 31-40-2-5.
635-17	24258	Road diversion in S.W. 2-40-5-5.
655-17	24267	Road diversion in W. $\frac{1}{2}$ Sec. 12-37-20-4.
657-17	24269	Road diversion in W. $\frac{1}{2}$ Sec. 7-37-19-4.
667-17	24210	Road diversion north of Secs. 33/34/35-36-19-4.
685-17	24284	Road diversion in N.E. 29 and S.E. 32-40-21-4.
686-17	24285	Road diversion in N.E. 31-40-21-4.
687-17	24286	Road diversion in N.E. 33 and N.W. 34-41-23-4.
744-17	24380	Road diversion in W. $\frac{1}{2}$ Sec. 8 and S.W. 17-33-23-4.
801-17	24430	Road diversion in E. $\frac{1}{2}$ Sec. 3-41-5-5.
20-18	15653-B	Road diversion in N.W. 27-37-20-4.
24-18	17594-B	Road diversion in E. $\frac{1}{2}$ Sec. 6-38-20-4.
44-18	24520	Road diversion in N.E. 23 and S.E. 26-39-3-5.
53-18	24521	Road diversion in S.E. 6-41-4-5.
126-18	24578	Road diversion in N.E. 22-34-24-4.
127-18	24579	Road diversion in S.W. 10-33-22-4.
182-18	24620	Road diversion in N. $\frac{1}{2}$ Sec. 23-33-25-4.
183-18	24624	Road diversion in S.E. 16-33-22-4.
208-18	24629	Road diversion west of Secs. 2/11/14/23-33-20-4.
209-18	24630	Road diversion east of Secs. 26/35-37-26-4.
212-18	24638	Road diversion in W. $\frac{1}{2}$ Sec. 1 and S.E. 2-35-19-4 and N.W. 35-34-19-4.
288-18	24714	Road diversion in N.W. 35-41-23-4.
303-18	24721	Road diversion in E. $\frac{1}{2}$ Sec. 29-38-24-4.
304-18	24722	Road diversion in S.E. 27-39-22-4.
365-18	24762	Road diversion in S.W. 27-37-21-4.
366-18	24763	Road diversion in E. $\frac{1}{2}$ Sec. 27-37-21-4.
378-18	20505-B	Road diversion in S. $\frac{1}{2}$ Sec. 4-40-23-4.
393-18	15072	Road diversion in N.E. 6 and S.E. 7-39-19-4.
449-18	24837	Road diversion in S.W. 15-34-24-4.
454-18	24846	Road diversion in S. $\frac{1}{2}$ Sec. 14-38-19-4.
455-18	24845	Road diversion in S. $\frac{1}{2}$ Sec. 4-38-19-4.
482-18	24926	Road diversion in N.W. 19-37-19-4.
599-18	25115	Road diversion in S.W. 6-40-3-5.
600-18	25114	Road diversion in W. $\frac{1}{2}$ Sec. 16-40-3-5.
608-18	17862-B	Road diversion in E. $\frac{1}{2}$ Sec. 9-39-3-5.
754-18	25245	Road diversion in W. $\frac{1}{2}$ Sec. 7-41-2-5.
760-18	25257	Road diversion in S.E. 27-35-24-4.
761-18	25258	Road diversion in S.W. 17-35-23-4.
762-18	25259	Road diversion in S.W. 25-35-24-4.
763-18	24888	Road diversion in W. $\frac{1}{2}$ Sec. 13-35-24-4.
764-18	25254	Road diversion in S.W. 20-35-23-4.
765-18	25255	Road diversion in E. $\frac{1}{2}$ Sec. 15 and S.E. 22-35-23-4.
767-18	18597	Road diversion in N.E. 24-35-24-4.
811-18	25291	Road diversion in S.W. 29-36-22-4.
813-18	25293	Road diversion in E. $\frac{1}{2}$ Sec. 15 and S.W. 23-36-24-4.
814-18	25294	Road diversion in S.W. 15-36-22-4.

EXAMINATIONS.

254-15	22493	Examination in N.E. 9-39-7-5.
739-15	22878	Examination in N.W. 28 and S.W. 33-40-24-4.
638-16	23625	Examination in W. $\frac{1}{2}$ Sec. 5-38-22-4.
63-17	20739-B	Examination in west of Sec. 10-41-3-5.
275-17	23972	Examination in S.E. 33-40-24-4.
322-17	24020	Examination in Secs. 5/8-41-1-5.
592-17	18206-B	Examination in S.W. 27 and S.E. 28-39-19-4.
653-17	18779	Examination between Secs. 11/14-37-20-4.
97-18	24555	Examination in N.E. 31-39-23-4.
101-18	19751	Examination in S.W. 32-39-23-4.

Survey No.	File No.	Location.
124-18	24576	Examination in S.W. 15-34-23-4.
125-18	24577	Examination north of Sec. 21-34-23-4.
129-18	17986	Examination in S. $\frac{1}{2}$ Sec. 3-31-22-4.
207-18	24628	Examination of blind line bet. Secs. 1/12-33-20-4.
210-18	24631	Examination at the N.E. cor. Sec. 24-37-27-4.
218-18	19204	Examination in S.W. 2-33-22-4.
302-18	18081-B	Examination in N.E. 21-39-23-4.
319-18	18098-B	Examination in N.E. 11-37-21-4.
331-18	24741	Examination in Sec. 4-40-3-5.
355-18	24785	Examination in N.W. 36-38-3-5.
363-18	24774	Examination east of Secs. 28/33-38-23-4.

DRAINS.

684-17	24283	Drain in Sec. 7-40-21-4.
598-18	19773	Drain in N.E. 9-40-3-5.
937-18	19764	Drain in S.W. 31-39-2-5

VEGREVILLE, December 15, 1918.

A. P. C. BELYEA,

Assistant Director of Surveys,

Edmonton, Alberta.

SIR,—I have the honour to submit the following report of the surveys made and other engineering work done in the districts of Vegreville, Sedgewick, Stettler, Acadia, Coronation, Ribstone and Wainwright during the past season.

The first part of the year was spent preparing and completing returns of the previous season's work.

On May 1st I organized my party at Vegreville and worked southerly through the western part of my district to Township 35. I then worked easterly to Range 4. While in the vicinity of Consort I received a request from the Secretary of Rural Municipality No. 272 stating they had some surveys that were urgent, so I took part of my crew and went and made these surveys. I then worked northerly to the Saskatoon branch of the Canadian Pacific Railway and westerly along same to Hardisty, and then north-westerly across country to Viking, and closed up field operations at Vegreville on November 5th.

Owing to the great number of surveys needed in my district I had planned to clean up all the work north of Township 35 during the season and devote next season to the country south of Township 35, but as additional new surveys were required all along my route of work, I was able to carry out only part of the program as I had planned.

Owing to the increased area of new land under cultivation and being fenced, there was a great demand for surveys.

The work of the past season consists of the Surveying of New Roads, Road Diversions, Drains, Examinations, Reports and Cost Estimates.

The following is a list of the various work done:

NEW ROADS.

Survey No.	File No.	Location.
20-16	18446-B	New road in Secs. 1 and 12, Tp. 43-10-4, and in Sec. 6, Tp. 43-9-4.
290-17	23693	New road in Sec. 17, Tp. 44-13-4.
295-17	21610	New road in Secs. 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23 and 24, Tp. 46-12-4.
330-17	24030	New road in Secs. 2, 3, 10 and 11, Tp. 42-11-4.
355-17	20206	New road in Secs. 2 and 11, Tp. 42-10-4, and Secs. 26, 35 36, Tp. 41-10-4.
360-17	21512	New road in Secs. 12, 13, 14, 15 and 16, Tp. 44-9-4, and Secs. 7, 18, 17 and 19, Tp. 44-8-4.
488-17	24174	New road in Sec. 6, Tp. 42-9-4.
589-17	18960-B	New road in Secs. 16 and 21, Tp. 42-10-4.
761-17	24220	New road in Secs. 13, 14, 15, 16, 21, 22, 23 and 24, Tp. 37-10-4.
853-17	24464	New road in Sec. 29, Tp. 29-6-4.
37-18	24516	New road in Secs. 16, 17, 20 and 21, Tp. 40-13-4.
55-18	18324	New road in Sec. 4, Tp. 46-10-4.
73-18	20167	New road in Secs. 29 and 32, Tp. 39-5-4.
74-18	24256	New road in Sec. 1, Tp. 40-5-4.
82-18	22904-B	New road in Sec. 24, Tp. 38-6-4.
84-18	24545	New road in Secs. 1 and 12, Tp. 39-6-4.
85-18	23407-B	New road in Secs. 19 and 20, Tp. 38-5-4.
112-18	24563	New road in Secs. 14 and 23, Tp. 41-10-4.
272-18	24694	New road in Secs. 14, 15, 16, 21, 22 and 23, Tp. 39-13-4.
275-18	24699	New road in Secs. 28 and 33, Tp. 29-5-4.
276-18	24700	New road in Sec. 7, Tp. 38-14-4.
290-18	24706	New road in Secs. 31 and 32, Tp. 45-10-4, and Secs. 5 and 6, Tp. 46-10-4.
292-18	24708	New road in Sec. 4, Tp. 46-10-4.
295-18	23482-B	New road in Secs. 1 and 12, Tp. 46-11-4.
312-18	24732	New road in Sec. 26, Tp. 45-9-4.
327-18	24747	New road in Secs. 15 and 22, Tp. 38-14-4.
529-18	24955	New road in Secs. 4 and 9, Tp. 42-10-4.
532-18	18323-B	New road in Sec. 27, Tp. 45-9-4.
561-18	24972	New road in Secs. 29 and 33, Tp. 42-8-4.
566-18	24970	New road in Sec. 34, Tp. 41-8-4.
570-18	18736-B	New road in Secs. 26, 27, 28, 29, 30, 31, 32, 33, 34 and 35, Tp. 41-9-4.
584-18	15656-E	New road in Secs. 1 and 12, Tp. 41-9-4, and Secs. 3, 4, 5, 6, 7, 8, 9 and 10, Tp. 41-8-4.
607-18	22465	New road in Secs. 6 and 7, Tp. 41-9-4.
933-18	25365	New road across S.W. $\frac{1}{4}$ Sec. 1, Tp. 40-13-4.

ROAD DIVERSIONS

249-17	23957	Diversion south of Sec. 1, Tp. 51-11-4.
285-17	23992	Diversion east of Sec. 22, Tp. 44-11-4.
287-17	23994	Diversion south of Sec. 27, Tp. 45-11-4.
311-17	24011	Diversion west of Sec. 32, Tp. 50-12-4.
423-17	24111	Diversion west of Sec. 10, Tp. 41-6-4.
487-17	24173	Diversion west of Sec. 27, Tp. 41-7-4.
706-17	24349	Diversion south of Sec. 4, Tp. 37-10-4.
732-17	24365	Diversion east of Sec. 5, Tp. 51-10-4.
746-17	24385	Diversions south of Secs. 13 and 14, Tp. 41-13-4.
803-17	24434	Diversion south of Sec. 17, Tp. 37-14-4.
804-17	24435	Diversions west of Sec. 21, Tp. 39-13-4.
805-17	24436	Diversions north of Sec. 8, and south of Sec. 18, Tp. 40-14-4.
839-17	24456	Diversion west of Sec. 25, Tp. 36-14-4.
864-17	24467	Diversion west of Sec. 5, Tp. 37-6-4.
12-18	24466	Diversion east of Sec. 27, Tp. 50-10-4.
22-18	24497	Diversions east of Sec. 28 and 33, Tp. 39-13-4.
23-18	24498	Diversion south of Sec. 6, Tp. 40-13-4.
38-18	24515	Diversion east of Sec. 34, and west of Secs. 26 and 35, Tp. 40-14-4.
59-18	24527	Diversions west of Secs. 12 and 13, Tp. 46-13-4.
60-18	24528	Diversion west of Secs. 2 and 11, Tp. 46-13-4.
65-18	24533	Diversion south of Sec. 4, Tp. 46-13-4.

Survey No.	File No.	Location.
67-18	24535	Diversion west of Sec. 4, Tp. 47-13-4.
75-18	24536	Diversion north of Sec. 35, Tp. 39-5-4.
76-18	24537	Diversion east of Sec. 25, Tp. 39-5-4.
77-18	24538	Diversion west of Sec. 4, Tp. 40-5-4.
78-18	24539	Diversion east of Sec. 9, Tp. 40-5-4.
79-18	24541	Diversion into Secs. 10 and 15, Tp. 38-6-4, and Secs. 11 and 14, Tp. 38-6-4.
80-18	24542	Diversions into Secs. 3 and 2, Tp. 38-6-4.
81-18	24543	Diversion east of Sec. 35, Tp. 38-6-4.
86-18	24544	Diversions south of Secs. 1 and 2, Tp. 39-6-4, and north of Sec. 35, Tp. 38-6-4.
123-18	24574	Diversion east of Sec. 16, Tp. 40-5-4.
198-18	24639	Diversion east of Sec. 6, Tp. 47-12-4.
199-18	24640	Diversion east of Secs. 5 and 8, Tp. 47-12-4.
200-18	24641	Diversion west of Sec. 15, Tp. 47-12-4.
201-18	24642	Diversion north of Sec. 12, Tp. 47-12-4.
202-18	24643	Diversion east of Sec. 13, Tp. 47-13-4.
206-18	23486-B	Diversion west of Sec. 19, Tp. 45-12-4.
326-18	24746	Diversions into Secs. 24 and 25, Tp. 39-14-4, and Sec. 30, Tp. 39-13-4.
271-18	24693	Diversion west of Sec. 1, Tp. 39-13-4.
273-18	24695	Diversion north of Sec. 33, Tp. 36-14-4.
274-18	24696	Diversion east of Sec. 11, Tp. 37-13-4.
279-18	18864	Diversions north of Sec. 7, and west of Sec. 17, Tp. 50-12-4.
291-18	24707	Diversion west of Sec. 20, Tp. 45-10-4.
293-18	24709	Diversion west of Sec. 18, Tp. 46-11-4, and east of Sec. 13, Tp. 46-12-4.
296-18	24715	Diversion across Sec. 35, Tp. 46-11-4.
313-18	24733	Diversions into Secs. 17, 19 and 20, Tp. 45-9-4.
314-18	24734	Diversion west of Sec. 29, Tp. 45-8-4.
322-18	21052-B	Diversion into Secs. 26 and 27, Tp. 38-14-4.
323-18	24739	Diversions into Secs. 20 and 29, Tp. 39-14-4.
324-18	24744	Diversions south of Sec. 13, Tp. 39-14-4.
325-18	24745	Diversion west of Sec. 33, Tp. 37-15-4.
327-17	23208	Diversion south of Sec. 18, Tp. 40-11-4.
360-18	24779	Diversion west of Sec. 31, Tp. 46-12-4.
361-18	23778	Diversion west of Sec. 1, Tp. 46-11-4.
401-18	24832	Diversions into Secs. 23, 26 and 27, Tp. 46-10-4.
420-18	24830	Diversions into Secs. 11, 12 and 13, Tp. 45-10-4.
421-18	24829	Diversion into Secs. 2 and 3, Tp. 45-10-4.
424-18	24848	Diversions into Secs. 1, Tp. 46-11-4, and Sec. 6, Tp. 46-10-4.
425-18	24850	Diversions east of Secs. 19 and 30, Tp. 46-11-4.
426-18	24850	Diversion across Sec. 19, Tp. 45-9-4.
427-18	24851	Diversions into Secs. 8, 9, 16 and 17, Tp. 45-9-4.
429-18	24857	Diversion south of Sec. 13, Tp. 45-11-4.
431-18	18855-C	Diversion west of Sec. 21, Tp. 46-11-4.
435-18	24883	Diversion into Sec. 16, Tp. 37-9-4.
485-18	22046-B	Diversions into Secs. 8, 9 and 16, Tp. 37-6-4.
520-18	24948	Diversion west of Sec. 33, Tp. 37-6-4.
527-18	23934	Diversions into Secs. 11, 26 and 35, Tp. 36-6-4, and Secs. 34 and 35, Tp. 35-6-4, and Sec. 3, Tp. 36-6-4.
550-18	24959	Diversion north of Sec. 20, Tp. 38-11-4.
551-18	24966	Diversion east of Sec. 3, Tp. 37-10-4.
552-18	24961	Diversion south of Sec. 18, Tp. 37-10-4.
553-18	24962	Diversion south of Sec. 29, Tp. 36-11-4.
554-18	24963	Diversions east of Sec. 25, Tp. 37-12-4 and west of Sec. 30, Tp. 37-11-4.
555-18	24964	Diversion south of Sec. 26, Tp. 36-12-4.
562-18	24978	Diversion east of Secs. 14 and 23, Tp. 36-8-4.
563-18	24980	Diversion south of Sec. 16, Tp. 36-8-4.
564-18	24981	Diversions into Secs. 10, 11, 14 and 15, Tp. 36-8-4.
557-18	24966	Diversion east of Sec. 21, Tp. 37-12-4.
588-18	25100	Diversion east of Sec. 19, Tp. 36-14-4.
603-18	25109	Diversion north of Secs. 34 and 35, Tp. 40-9-4, and south of Sec. 3, Tp. 41-9-4.
605-18	25104	Diversion east of Sec. 35, Tp. 47-12-4.
609-18	15392-D	Diversion north of Sec. 25, Tp. 47-12-4.
618-18	25123	Diversions into Secs. 10 and 11, Tp. 31-5-4.

Survey No.	File No.	Location.
619-18	25124	Diversion west of Sec. 23, Tp. 31-5-4.
620-18	25125	Diversion north of Sec. 35, Tp. 30-5-4.
625-18	25128	Diversion north of Sec. 7, Tp. 36-7-4.
626-18	25129	Diversion east of Secs. 12 and 13, Tp. 36-8-4, and west of Sec. 6, Tp. 36-7-4.
655-18	25162	Diversion south of Sec. 3, Tp. 37-13-4.
666-18	25161	Diversion north of Sec. 8, Tp. 40-12-4.
705-18	25205	Diversion east of Sec. 8, Tp. 42-13-4.
706-18	25206	Diversion north of Sec. 21, Tp. 41-13-4.
707-18	25204	Diversion east of Sec. 34, Tp. 40-12-4.
709-18	15819-C	Diversion west of Sec. 16, Tp. 40-12-4.
742-18	25260	Diversion west of Secs. 13 and 24, Tp. 44-10-4.
748-18	25261	Diversion east of Secs. 17 and 20, Tp. 44-11-4.
787-18	25273	Diversion north of Sec. 22, Tp. 36-6-4.
825-18	23413	Diversion east of Sec. 31, Tp. 38-6-4.
826-18	24913	Diversion west of Sec. 8, Tp. 41-6-4.
865-18	15656-B	Diversion south of Sec. 11, Tp. 41-8-4, and west of Sec. 7, Tp. 40-4-4.

CHANGES IN SURVEYS.

528-18	23481	Change in road surveyed in Secs. 25 and 36, Tp. 45-10-4.
818-17	24153	Change in diversion surveyed east of Sec. 17, Tp. 41-6-4.
19-18	23995	Change in diversion surveyed west of Sec. 30, Tp. 46-11-4, and east of Sec. 25, Tp. 46-12-4.
33-18	23249	Change in road surveyed in Sec. 33, Tp. 39-13-4.
83-18	23410-B	Change in diversion surveyed north of Sec. 31, Tp. 39-5-4.
175-18	21521-B	Change in diversion surveyed in Sec. 33, Tp. 47-10-4.
180-18	18203-B	Change in diversion surveyed in Sec. 34, Tp. 40-12-4.
864-18	23440	Change in diversion surveyed north of Secs. 8 and 9, Tp. 44-10-4.

EXAMINATIONS AND REPORTS.

164-16	23256	Examination and report re road in Secs. 2 and 11, Tp. 42-6-4, let survey stand (advised by Councillor).
286-17	23993	Examination and report re survey in Secs. 19 and 20, Tp. 45-11-4, no survey required.
7-18	24031	Examination and report re road in Secs. 7 and 8, Tp. 40-12-4, Councillor advises not required at present.
36-18	24517	Examination and report re road south of Secs. 15 and 16, Tp. 40-13-4, impossible.
66-18	24534	Examination and report re road north of Sec. 7, Tp. 46-13-4, no survey required.
125-18	24562	Examination and report re road east of Secs. 22 and 27, Tp. 40-12-4, no survey required.
249-18	14067	Examination and report re railway crossing north of Sec. 20, Tp. 50-10-4.
214-18	24647	Examination and report re road east of Sec. 8, Tp. 35-8-4, no survey required.
556-18	24965	Examination and report re road south of Sec. 3, Tp. 36-11-4, advise cut hill.
659-18	24968	Examination and report re southwest corner of Sec. 16, Tp. 36-12-4, better grade slough.
565-18	24979	Examination and report re road north of Secs. 15 and 16, Tp. 36-7-4, no survey required.
604-18	25108	Examination and report re road north of Sec. 32, Tp. 40-9-4, not feasible. Party will agree on private road, no survey required.
624-18	25127	Examination and report re road south of Secs. 5 and 6, Tp. 36-7-4, impossible to open.
59-18	24527	Examination and report re drain across Sec. 15, Tp. 46-13-4. Examination and report re drain east of Sec. 15, Tp. 41-13-4.

OTHER WORK.

480-18	23333	Staked road for grading in Secs. 21, 28 and 33, Tp. 46-6-4.
	14040	Established lost corners east of Sec. 6, Tp. 51-12-4.

Progress reports and sketches were forwarded to the Department at the time the surveys and examinations were made.

A number of plans and final returns have already been forwarded to the Department, the remainder are now in course of preparation.

Your obedient servant,

LENNOX T. BRAY,

District Surveyor and Engineer.

EDMONTON, December 17, 1918.

A. P. C. BELYEA,

Assistant Director of Surveys,

Edmonton, Alberta.

SIR,—I am attaching hereto detailed report showing the work done in my district of North Alberta during the past season.

Having organized my party, I took the field on May 20th.

Owing to the exceptionally dry season I was enabled to cover a portion of my district which in ordinary seasons is almost impracticable for wagons and outfits, viz., that portion in the vicinity of Jenkins and Chip Lake. I was thus enabled to clean up several pieces of work that have been outstanding for some time.

Acting on your instructions my party was limited to two men on line outside of my assistant and myself. This is really too small a party for work in the bush, where on almost every survey a large amount of chopping is necessary. The picking up of section lines which have previously been opened, in many cases involves the clearing of such lines, as many of them are covered with second growth, and consequently the survey of a small diversion, which in itself does not appear to entail much work is actually more difficult and lengthy than would be apparent were these circumstances not taken into consideration. It must be recognized, however, that it was difficult to get men last season, but I do not anticipate any such difficulty during next season. The elimination of pit digging helped out considerably, but I would strongly recommend that if possible, steps should be taken to dig pits at an early date on this past season's work.

On November 8th I reached Stoney Plain intending to move north of there and attend to some work in that vicinity, but I found that owing to the prevalence of the Spanish Influenza it was practically impossible to arrange for any camping place, or for accommodation for my horses. I, therefore, decided to pull my outfit in for the season and arrived in Edmonton on November 11th, disbanding my party on the following day.

Your obedient servant,

P. N. JOHNSON,

District Surveyor and Engineer.

NEW ROADS.

Survey No.	File No.	Location.
31-14	21516	New road and diversions in Secs. 19, 20 and 30, Tp. 54-5-5, and Secs. 25, 35 and 36, Tp. 54-6-5.
204-14	17538	New road along north boundary Sec. 1, Tp. 56-2-5.
292-14	21618	New road along blind line between Secs. 13 and 24, Tp. 53-10-5.
113-15	22422	New road in Sec. 12, Tp. 56-9-5.
115-15	22389	New road along blind line between Secs. 17 and 20, Tp. 58-9-5.
234-15	22510	New road in Secs. 4, 5, 7 and 8, Tp. 55-10-5.
72-16	23183	New road across Secs. 13 and 14, Tp. 54-9-5.
73-16	23179	New road between Secs. 27 and 34, Tp. 53-8-5.
424-17	24112	New road along blind line between Secs. 27 and 34, Tp. 55-2-5.
547-17	24250	New road along blind line between Secs. 13 and 24, Tp. 53-3-5.
714-17	24357	New road along blind line between Secs. 14/23, 15/22, 16/21, 17/20, Tp. 55-3-5.
71-18	18842-B	New road in Secs. 30 and 31, Tp. 55-6-5.
174-18	24627	New road in Sec. 13, Tp. 54-13-4.
793-18	25274	New road along blind line between Secs. 5 and 8, Tp. 59-8-5.

ROAD DIVERSIONS.

736-14	22313	Diversions in Secs. 1 and 2, Tp. 57-7-5.
811-14	22207	Diversions north of Secs. 9, 10, 11 and 12, Tp. 55-3-5.
50-15	22341	Diversion in N.W. $\frac{1}{4}$ Sec. 27, Tp. 56-10-5.
56-15	22318	Diversions in Secs. 11, 15, 22, 26, 27, 34 and 35, Tp. 55-3-5.
804-15	23020	Diversions in Sec. 25 and Hudson's Bay Reserve, Tp. 57-3-5.
54-16	23111	Diversions in Secs. 31 and 32, Tp. 56-3-5.
75-16	23181	Diversion in N.E. $\frac{1}{4}$ Sec. 34, Tp. 54-9-5.
239-16	23119	Diversion in Secs. 34 and 35, Tp. 54-7-5.
538-16	23562	Diversions in Secs. 1 and 12, Tp. 59-7-5.
582-16	20485	Diversion in S.W. $\frac{1}{4}$ Sec. 29, Tp. 53-8-5.
13-17	20797	Diversion in W. $\frac{1}{2}$ Sec. 9, Tp. 55-1-5.
14-17	23779	Diversion in S.E. $\frac{1}{4}$ Sec. 25, Tp. 56-2-5.
25-17	21688	Diversion and railway crossing at Fallis in Sec. 15, Tp. 53-5-5.
223-17	23941	Diversions in W. $\frac{1}{2}$ Sec. 31, Tp. 53-4-5 and W. $\frac{1}{2}$ Sec. 1, Tp. 54-5-5.
187-18	24625	Diversion in N.W. $\frac{1}{4}$ Sec. 7, Tp. 53-1-5.
278-18	23321	Diversion in W. $\frac{1}{2}$ Sec. 22, Tp. 44-16-4.
317-18	24723	Diversion in N.E. $\frac{1}{4}$ Sec. 31, Tp. 46-18-4.
318-18	24724	Diversion in N. $\frac{1}{2}$ Sec. 33, Tp. 46-16-4.
936-18	20564	Diversion and railway crossing in E. $\frac{1}{2}$ Sec. 16, Tp. 54-14-5 (Peers).

RE-SURVEYS.

854-17	14538-C	Re-survey of Lac Ste. Anne Trail in Secs. 31, 32 and 33, Tp. 54-27-4, and in Secs. 4 and 5, Tp. 55-27-4.
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CHANGES IN SURVEYED ROADS.

630-15	15114-D	Change in surveyed road in Sec. 24, Tp. 53-5-5.
652-18	23225	Change in surveyed road and survey of railway crossing in N.E. $\frac{1}{4}$ Sec. 2, Tp. 54-16-5 (Wolf Creek).

MISCELLANEOUS.

513-15	14000	Examination re complaint of flooding in N.E. $\frac{1}{4}$ Sec. 19, Tp. 56-2-5.
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EXAMINATIONS.

233-15	22508	Examination re proposed road between north and south halves of Sec. 26, Tp. 53-10-5.
74-16	23180	Examination re proposed diversion in S.E. $\frac{1}{4}$ Sec. 3, Tp. 55-9-5.
76-16	23182	Examination re proposed diversions in E. $\frac{1}{2}$ Sec. 36, Tp. 53-9-5 and E. $\frac{1}{2}$ Sec. 1, Tp. 54-9-5.
77-16	23184	Examination re proposed new road in Secs. 35 and 36, Tp. 54-7-5 and Sec. 2, Tp. 55-7-5.

Survey No.	File No.	Location.
694-17	24352	Examination re private road in N.W. $\frac{1}{4}$ Sec. 9, Tp. 55-3-5.
6-18	24474	Examination re proposed diversions in Secs. 26, etc., Tp. 53-10-5.
259-18	14538-B	Examination of road allowances north and west of Sec. 36, Tp. 54-2-5.
430-18	24835	Examination of road diversion proposed by C. N. R. in N.E. $\frac{1}{4}$ Sec. 16, Tp. 53-7-5.
840-18	23379-B	Examination of proposed change in surveyed road in Secs. 18 and 19, Tp. 57-5-5 and Sec. 13, Tp. 57-6-5.

CALGARY, December 18, 1918.

A. P. C. BELYEA,

Assistant Director of Surveys,

Edmonton.

SIR,—I have the honour to submit the following report of work performed in the Calgary district during the season of 1918.

As usual, the winter months were spent in preparing plans of surveys made during the previous season.

In May I organized my party and started field work west of Calgary. I then moved south to the Okotoks district, attending to some urgent surveys in the foot hills south-west of Priddis. I then moved south, completing all surveys in the foot hills west of the C. & E. Railway, and also a few to the east. Owing to some urgent work in the northwest part of my district I then moved north through Calgary and Airdrie. After completing all the surveys on my schedule in the north-west part of the district I moved east through Cremona and Carstairs over to the district north of Acme, through Twining and Carbon, making all surveys asked for in those districts. I completed my district south-west of Drumheller.

During the first four months I was without the services of an assistant, and together with the small party the work in the brushy country south-west of Calgary was greatly retarded.

The season has been favourable for field work, and I was able to clear off a great many outstanding surveys, although some in the remote parts of my district will have to be carried over till next season.

Besides the regular field work of the party I made a number of surveys and examinations, and altogether I consider the season's work very satisfactory.

Following is a list of surveys and examinations.

Your obedient servant,

W. H. YOUNG,

District Surveyor and Engineer.

ROAD DIVERSIONS.

Survey No.	File No.	Location.
104-15	22361	In S.W. $\frac{1}{4}$ 13-28-23-4.
718-15	22891	In N.W. $\frac{1}{4}$ 12-30-2-5.
336-16	23420	In W. $\frac{1}{2}$ Sec. 22-15-28-4.

Survey No.	File No.	Location.
509-16	23199	In Secs. 10 and 11-19-2-5.
690-16	20044	In N.E. $\frac{1}{4}$ Sec. 19, and blind line bet. 18/19-15-29-4.
53-17	23807	W. $\frac{1}{2}$ Sec. 9-30-25-4.
139-17	19226	In Sec. 5-28-1-5.
149-17	23795	In Secs. 3, 4 and 9-22-3-5.
232-17	24401	In Sec. 27-27-2-5.
381-17	24061	In Sec. 11-19-1-5.
742-17	24312	In Sec. 27-19-27-4.
912-17	24501	In N.E. $\frac{1}{4}$ Sec. 36, and along $\frac{1}{4}$ line Sec. 36-26-1-5.
2-18	18100	In Sec. 17-16-1-5.
57-18	24526	In N. $\frac{1}{2}$ Sec. 21, in S.E. $\frac{1}{4}$ Sec. 29, in S.E. $\frac{1}{4}$ Sec. 30-30-23-4.
132-18	14476-D	In Sec. 19 and bet. Secs. 18/19-20-3-5.
258-18	21510	In S. $\frac{1}{2}$ Sec. 6-20-3-5.
299-18	24716	In N.W. $\frac{1}{4}$ 8-21-28-4.
387-18	24808	In Secs. 22 and 23-30-4-5.
460-18	21511	In Sec. 13-19-2-5.
508-18	24932	In S.W. $\frac{1}{4}$ Sec. 26-29-28-4.
589-18	24988	In Secs. 6 and 7-31-22-4.
650-18	24171	In Secs. 27 and 34-24-4-5.
697-18	15147-C	In N.W. $\frac{1}{4}$ Sec. 11, in S.W. $\frac{1}{4}$ Sec. 11, Tp. 29-4-4.
698-18	25112	In Secs 15 and 22-30-26-4.
745-18	25240	In S. $\frac{1}{2}$ Sec. 15-25-28-4.
870-18	25332	In E. $\frac{1}{2}$ Sec. 1-30-26-4.
896-18	22419	In Secs. 35 and 36-29-25-4.
899-18	20511	In N.E. $\frac{1}{4}$ Sec. 8, S. $\frac{1}{2}$ Sec. 16, S.W. $\frac{1}{4}$ Sec. 16, S.E. $\frac{1}{4}$ Sec. 15, S.W. $\frac{1}{4}$ Sec. 14, Tp. 28-22-4.
903-18	25357	In E. $\frac{1}{2}$ Sec. 25-28-22-4.
904-18	25358	In N.E. $\frac{1}{4}$ Sec. 36-28-22-4.
906-18	25360	In Secs. 19 and 30-29-3-4.
908-18	25363	In N.W. $\frac{1}{4}$ Sec. 21-29-23-4.
909-18	25364	In S.W. $\frac{1}{4}$ Sec. 29, N.W. $\frac{1}{4}$ Sec. 20-28-22-4.
910-18	25366	In N.W. $\frac{1}{4}$ Sec. 18, S.W. $\frac{1}{4}$ Sec. 19-28-21-4.
911-18	25367	In Secs. 21 and 22-30-23-4.
912-18	25368	In S.E. $\frac{1}{4}$ Sec. 16-28-20-4.
913-18	25369	In S.W. $\frac{1}{4}$ Sec. 30-29-23-4 and in S.E. $\frac{1}{4}$ Sec. 25-29-24-4.
914-18	25370	In N. $\frac{1}{2}$ Sec. 11-30-23-4.
915-18	20796-B	In N.W. $\frac{1}{4}$ Sec. 21-29-24-4.
918-18	19151	In N.W. $\frac{1}{4}$ Sec. 22-28-21-4.
902-18	25356	In E. $\frac{1}{2}$ Sec. 28-30-26-4.

NEW ROADS.

950-18	20274	Road in Secs. 33, 34 and 35, and diversion in N. $\frac{1}{2}$ Sec. 36-24-3-5.
757-14	22169	Road N. of N.W. $\frac{1}{4}$ Sec. 1-16-29-4.
58-17	23831	Road from N.E. corner of Sec. 16-20-21-4 across the Blackfoot Indian Reserve into Cluny.
150-17	23377	Road N. of Secs. 13, 14 and 15-31-23-4.
180-17	23873	Road across Secs. 36 and 35-29-5-5.
859-18	21073-B	Road in Secs. 16 and 17-16-21-4.
440-17	24128	Road in S. $\frac{1}{2}$ Sec. 28-29-24-4.
735-17	15505	Road in Sec. 4-21-23-4 across the Blackfoot Indian Reserve to Gleichen.
558-17	23948	Roads into Cayley in Sec. 19-27-28-4.
34-18	24504	Road in N. $\frac{1}{2}$ Sec. 22-29-24-4.
255-18	14498	Road in Secs. 5, 6, 7 and 8-20-28-4.
897-18	23368	Road in Secs. 29, 32-28-21-4.
898-18	24167	Road along $\frac{1}{4}$ Section line Secs. 6, 5, 4, and 3, Tp. 28-21-4.
905-18	25359	Road along $\frac{1}{4}$ line Sec. 12-30-23-4.
917-18	19334	Road in S.E. $\frac{1}{4}$ Sec. 4-29-21-4.

CHANGE IN SURVEYS.

541-16	16601	In E. $\frac{1}{2}$ Sec. 4-15-1-5.
817-17	15219-B	In Sec. 7-22-3-5.
45-18	15079	In Sec. 25-17-2-5.
69-18	17735	In Sec. 33-20-28-4.
289-18	14151-A	In Sec. 31-27-3-5.
595-18	16179-B	In N.W. $\frac{1}{4}$ Sec. 10-30-2-5.

Survey No.	File No.	Location.
700-18	15711-B	In E. $\frac{1}{2}$ Sec. 30-30-2-5.
872-18	15384-B	In N. $\frac{1}{2}$ Sec. 23-28-2-5.
873-18	16363-C	In Secs. 26 and 35-28-29-4.
894-18	14727-C	In S.W. $\frac{1}{4}$ Sec. 13, in W. $\frac{1}{2}$ Sec. 11 and in W. $\frac{1}{2}$ Sec. 14-29-23-4.
895-18	22631	In Secs. 19 and 20-29-24-4.
900-18	21729	In S. $\frac{1}{2}$ Sec. 27-30-23-4.

MISCELLANEOUS.

558-16	19638	Levels for drainage in Sec. 20-30-26-4.
559-16	23573	Levels for drainage in Secs. 10 and 11-30-26-4.
949-18	25401	Survey of gravel pits Sec. 15-24-28-4.
948-18	22645	Examination and cross-section on blind line between Secs. 28/33-20-23-4.
934-18	25379	Staking of grades in Secs. 25, 26 and 35-29-1-5.

EXAMINATIONS.

39-17	23774	R. A. between Secs. 13/14-28-29-4.
572-17	15481	Trail across Sec. 9-24-29-4.
56-18	18123	Re change N. of Sec. 31-22-26-4.
119-18	24568	R. A. E. of Sec. 11-26-2-5.
197-18	24645	Staking grades across Sec. 7-28-19-4 and examination of R. A. north of Secs. 12 and 11, E. of Secs. 15 and 22, and N. of Secs. 22, 21, 20 and 19, Tp. 28-20-4.
251-18	14181-C	Road N. of Sec. 6-21-3-5.
283-18	24703	R. A. between Secs. 9 and 16 and Secs. 10 and 15, Tp. 27-4-5.
284-18	24704	R. A. between Secs. 15 and 16 and Secs. 21 and 22, Tp. 27-4-5.
301-18	14558-B	Proposed change in Sec. 17-20-28-4.
507-18	24931	R. A. between Secs. 27/28-29-28-4.
598-18	23502-B	Proposed change in S.E. $\frac{1}{4}$ Sec. 6-31-21-4.
739-18	25270	Proposed road between Wayne and Beynon, Tps. 27 and 28-20-4.
111-18	14106	Re the cancelling of old Blackfoot trail in Tp. 20, Rges. 22 and 23, and in Indian Reserve.
947-18	23151	Re change in Sec. 14-20-20-4.
946-18	24303	Re change in Sec. 13-22-21-4.

LETHBRIDGE, December 16, 1918.

A. P. C. BELYEA,

Assistant Director of Surveys,

Edmonton, Alberta.

SIR,—I have the honour to submit the following report in connection with road surveys in the district of South Alberta during the year 1918.

After returning from my holidays in March I completed plans of surveys made in 1917, organized my party and went into the field on the 3rd day of May. I commenced survey operations south of Raymond in the Milk River Ridge, then worked north into the Little Bow River in Townships 11 and 12-19, W 4th, then westerly along the Little Bow River in the northern part of my district through Carmangay, Stavely and Claresholm into the Porcupine Hills.

All necessary surveys were made along the valley of Willow Creek, in the vicinity of Furman and Meadow Creek, thence along the east slope of the Porcupine Hills to the Old Man River, where I turned westerly through Spring Point and Summer View on to the

Livinstone River, thence northerly along the Livinstone River on the west slope of the Porcupine Hills as far as Township 10-1 W 5th, where I completed the season's work on the 15th of December.

In Municipal Districts, Councillors were interviewed in connection with surveys, and all of these appeared to be satisfied with what has been done.

As a whole, the season has been a favourable one for survey operations, except that feed has been scarce, especially out on the prairie district.

Below is a list of Examinations, Road Diversions, Surveys Checked, Surveys Changed and New Road Surveys.

Respectfully submitted,

Your obedient servant,

R. J. GORDON,

District Surveyor and Engineer.

EXAMINATIONS.

Survey No.	File No.	Location.
940-18	15077-B	Road west from Furman in Tp. 11-30-4 and Tp. 11-1-5.
286-12	20244	In Secs. 10, 11 and 14, Tp. 9-1-5.
98-16	23197	In Sec. 6, Tp. 13-28-4.
289-16	21919	In Sec. 32, Tp. 11-27-4.
563-16	23566	In Secs. 25 and 36, Tp. 7-30-4.
2-17	16616-D	In Sec. 2, Tp. 14-28-4.
531-17	24216	In Secs. 28 and 29, Tp. 12-21-4.
694-18	17673-B	In Sec. 35, Tp. 7-29-4.
942-18	14638-B	Road allowance N. of Sec. 32, Tp. 5-26-4, in Secs. 7, 8 and 9, Tps. 10-2-5.
939-18	15150	Extension of 3rd Street West in Town of Magrath.
	30248	Road allowance N and W. of N.W. $\frac{1}{4}$ Sec. 21-2-16-4.
945-18	21636	In Sec. 22, Tp. 12-19-4.

DIVERSIONS.

359-11	19195	In Sec. 19, Tp. 12-21-4.
483-11	19318	In Sec. 32, Tp. 11-21-4.
16-12	19487	In Sec. 33, Tp. 13-20-4 and Secs. 4 and 5, Tp. 14-20-4.
23-12	19431	In Secs. 8, 9 and 10, Tp. 12-19-4.
18-13	20629	In Sec. 30, Tp. 10-21-4.
70-13	20750	In Secs. 13 and 14, Tp. 8-30-4.
93-15	22393	In Sec. 26, Tp. 14-25-4.
306-15	16189	In N.E. $\frac{1}{4}$ Sec. 33, Tp. 10-29-4.
70-16	23177	In S.W. $\frac{1}{4}$ Sec. 23, Tp. 5-2-5.
277-16	23355	In Sec. 11, Tp. 13-21-4.
288-16	22734	In N.E. $\frac{1}{4}$ Sec. 23, Tp. 10-27-4.
566-16	23546	In Sec. 11, Tp. 14-25-4.
383-17	24064	In N.E. $\frac{1}{4}$ Sec. 33, Tp. 8-26-4.
384-17	24065	In Sec. 33, Tp. 8-29-4.
539-17	24169	In Sec. 30, Tp. 12-20-4.
573-17	24170	In Sec. 13, Tp. 14-21-4.
786-17	24490	In N. $\frac{1}{2}$ Sec. 31, Tp. 8-26-4.
133-18	24583	In N.E. $\frac{1}{4}$ Sec. 11 and S.E. $\frac{1}{4}$ Sec. 14-10-27-4.
300-18	24725	In Secs. 22 and 23, Tp. 14-28-4.
395-18	24869	In Secs. 7, 8 and 17, Tp. 15-21-4.
440-18	24868	In Secs. 1 and 12, Tp. 7-21-4.
720-18	25195	In Secs. 19, 29, 30, 31 and 32, Tp. 4-20-4.
830-18	22713	In S.W. $\frac{1}{4}$ Sec. 14, Tp. 14-28-4.
831-18	25299	In S.E. $\frac{1}{4}$ Sec. 5, Tp. 14-25-4.
832-18	25300	In Tp. 13, between Ranges 20 and 21-4.
833-18	25301	In S.W. $\frac{1}{4}$ Sec. 35, Tp. 13-26-4.

Survey No.	File No.	Location.
834-18	25302	In W. $\frac{1}{2}$ Sec. 33, Tp. 13-25-4.
855-18	25324	In N.W. $\frac{1}{4}$ Sec. 8, Tp. 5-20-4.
875-18	25333	In N.W. $\frac{1}{4}$ Sec. 13, Tp. 11-28-4.
929-18	25383	In Secs. 19 and 20, Tp. 8-29-4.
930-18	25384	In Sec. 21, Tp. 8-29-4.
935-18	17968	In Secs. 11 and 14, Tp. 8-30-4.
62-13	20742	In Secs. 22, 27, 28 and 33, Tp. 8-1-5.
943-18	25393	In Secs. 23, 26 and 36, Tp. 9-1-5.
819-18	16209-B	In Secs. 9, 15 and 16, Tp. 8-29-4.
944-18	16263	In S.W. $\frac{1}{4}$ Sec. 3, Tp. 9-1-5.
957-18	25394	In Secs. 33 and 34, Tp. 9-1-5.

SURVEYS CHECKED.

210-14	21466	In Sec. 31, Tp. 2-21-4.
19-17	23714	In Sec. 14, Tp. 1-11-4.
94-18	20608-C	In Sec. 11, Tp. 2-26-4.
941-18	24548	In Sec. 30, Tp. 4-16-4.

CHANGES.

607-12	14583	In Secs. 14 and 15, Tp. 11-28-4.
851-14	15766	In Sec. 31, Tp. 11-21-4.
4-17	20696-B	In Secs. 9 and 16, Tp. 9-1-5.
797-17	16543-B	In Sec. 25, Tp. 7-30-4.
142-18	14769-B	In Secs. 10 and 15, Tp. 7-29-4.
439-18	15681-B	In Sec. 15, Tp. 11-19-4.
820-18	17674-B	In Sec. 12, Tp. 8-29-4.
821-18	20747-B	In Sec. 2, Tp. 8-29-4.

NEW ROADS.

433-09	18017	In Tp. 14-24-4.
966-18	25414	In Secs. 3 and 4, Tp. 8-29-4.
281-15	16616-C	In Tps. 13 and 14-30-4 and Tp. 14-1-5.
418-16	14251-K	In Tps. 8-5 and 6-5.
1-17	21515	In Secs. 7 and 8, Tp. 9-27-4.
248-17	20021-B	In Secs. 3 and 10, Tp. 11-28-4.
400-18	24828	In Sec. 26, Tp. 14-26-4.
645-18	25149	In Secs. 4 and 5, Tp. 13-28-4.

DRAINAGE BRANCH

EDMONTON, January 20, 1919.

L. C. CHARLESWORTH, ESQ.,

Deputy Minister of Public Works,

Edmonton, Alta.

SIR,—I beg to submit the following report of the work of the Drainage Branch during the year 1918.

Two districts have been constituted "Drainage Districts" under The Drainage Act, by Order in Council—No. 1, south of Holden, and No. 6, surrounding the Village of Viking.

Tenders were called for the work on District No. 1 in May, but owing to changes having been made on the plans, and also to the high cost of labour, the tenders received were in excess of the estimated cost. The matter was again referred back to the resident owners, with the result that the prosecution of the work was endorsed. The contract for the excavation work only, was let in August. Two ditching machines had been at work for a month before winter set in. The cost of the excavation of the ditches in this district will be \$126,000.

District No. 6 is a much smaller scheme. Tenders were called for this work and owing to the fact that the lowest tender exceeded the estimate, the resident owners had again to be consulted. In this case also, the majority were in favour of proceeding with the construction work and the contract has been let although winter set in before any work could be carried out. This scheme will cost in the neighbourhood of \$27,000.

The stages to which the different districts petitioned for under The Drainage Act have advanced, are as follows:

(1) Parts of tps. 47 and 48, in range 15; of tps. 46, 47 and 48, in rg. 16; of tps. 46, 47 and 48, in rg. 17; all west of the 4th Meridian. Drainage District constituted, contract for construction work let and a beginning made on excavation.

(2) Parts of tps. 44 and 45 in rg. 14; of tps. 44 and 45 in rg. 15; and tps. 44 and 45, rg. 16; all west of 4th Meridian. Survey work practically completed.

(3) Parts of tp. 44, rg. 13; and tp. 44, rg. 14, west of 4th Meridian. Survey work completed, assessment made, appeals against assessment heard, but calling for tenders deferred until labour conditions are more favourable.

(4) Parts of tps. 42, 43, 44, 45, 46, in rg. 16; of tps. 43, 44, 45, in rg. 17; and of tps. 44 and 45 in rg. 18; all west of 4th Meridian. Survey work completed and assessment made.

(5) Parts of tps. 46 and 47, in rg. 17; of tps. 45, 46, 47 and 48, in rg. 18; all west of 4th Meridian. Survey work completed and assessment made.

(6) Parts of tps. 47 and 48 in rg. 12; and of tps. 47 and 48, in rg. 13; all west of 4th Meridian. Drainage District constituted and contract for construction work let.

(7) Parts of tps. 35 and 36 in rg. 2; and of tps. 35 and 36 in rg. 3; all west of 5th Meridian. Survey work completed, assessment made, appeals heard, but matter referred to Board of Assessors for readjustment.

(8) Parts of tp. 42 in rg. 14; and of tps. 41 and 42 in rg. 15; west of 4th Meridian. Survey work completed and assessment made.

(9) Parts of tp. 37 in rg. 20; of tps. 37 and 38 in rg. 21; all west of 4th Meridian. Survey work completed.

(10) Parts of tp. 45 in rg. 23; and of tp. 45 in rg. 24; all west of 4th Meridian. Survey work completed and assessment made.

Of the Petitions for the formation of new Districts which were received during the year, one complied with the requirements of the Act and will be investigated. The area included is that surrounding Beaverhills Lake in tps. 50, 51, 52 and 53, rgs. 17 and 18, west of 4th Meridian.

In some of the Drainage Districts, there are Dominion Lands which the Reclamation Act provides shall be turned over to the Provincial Government, but no actual transfers of land have yet taken place.

Although the year 1918 was unusually dry, Municipalities and private individuals requested the services of Engineers for the giving of levels and advice as to drainage. Examinations were made of 60 different projects and where drainage work was found feasible, ditches were staked out and profiles and estimates of cost provided.

Your obedient servant,

A. MACDONALD,

Drainage Engineer.

THE MINES BRANCH

EDMONTON, February 15, 1919.

L. C. CHARLESWORTH, ESQ.,

Deputy Minister of Public Works,

Edmonton, Alberta.

SIR,—In accordance with the provisions of The Mines Act, I herewith submit my report of the Mines Branch for the year ending December 31, 1918.

The Mines Act, which became effective on August 1, 1913, was amended at the 1918 Session of the Legislature, the principal changes made being provisions for bringing all operations, incidental to the extraction of coal by removing the over-lying strata, within the scope of the Act, and for requiring monthly reports with reference to output, etc., to be made to the Minister, instead of yearly reports as formerly. The Act was also amended to give the Lieutenant Governor in Council power to grant leases for mining coal under road allowances, to make arrangements for the installation and operation of mine rescue stations, and to make regulations regarding wash-houses and emergency hospitals.

The list of permitted explosives was amended on November 5, 1918, so that this list contains now only the explosives known as Monobel No. 1, Polar Permitite, Viking No. 1, and Dynobel No. 2.

The most serious accident which occurred during the year was at the mine operated by the Oliphant-Munson Collieries, Ltd., near Coalspur, in which a building containing a small amount of powder was destroyed by fire, with the result that the powder exploded, killing the manager and blacksmith, and injuring four men seriously and eleven slightly. A fire also occurred during December, 1918, at Cardiff, by which the office of the Cardiff Collieries, Ltd., was completely destroyed. No satisfactory explanation could be obtained as to the causes of these fires.

During the year underground fires occurred at the mines operated by the Cardiff Collieries, Ltd., the Lakeside Coals, Ltd., the Humberstone Coal Company, Ltd., and the Franco-Canadian Collieries, Ltd. The fire at the mine operated by the Cardiff Collieries, Limited, has been in existence for several years, and it was thought that it had been successfully cut off from the workings, but during the month of August it found its way through several barrier pillars, the result being that the management was forced to abandon that portion of the mine. The fire which occurred at the mine operated by the Lakeside Coals, Limited, took place during the month of May in an abandoned portion of the mine. These workings were afterwards sealed off by stoppings and water pumped into this area by an electrically driven pump, but the fire has not yet been extinguished. It would appear that the fire which broke out in the mine operated by the Humberstone Coal Co., Ltd., near Clover Bar, had been caused by coal burning on the outcrop of the seam on the banks of the North Saskatchewan river several years previously. The area in which this fire occurred was sealed off by clay stoppings which were later rein-

forced by brick and cement. During the month of April an explosion occurred in the mine operated by the Franco-Canadian Collieries, Ltd., by which two men were slightly burned about the face and hands. This explosion, as far as could be ascertained, was caused by gas coming in contact with a fire which had been burning for several years in the upper portion of the mine, and which had been sealed off. The pillars surrounding the area where the fire was burning, caved, with the result that the gas became ignited. This mine is now abandoned.

An explosion of gas took place during the year in the mine operated by the Canmore Coal Co., Ltd., by which five men were more or less injured. This explosion was the result of insufficient inspection of the place where the shot was about to be fired. The effects of the explosion was felt for approximately 200 feet from the point of ignition, but the dust present did not show any signs of coking. Another explosion of gas occurred in the No. 3 mine operated by the Department of Natural Resources of the Canadian Pacific Railway Company at Lethbridge, by which a small quantity of gas, which accumulated in a cavity in the roof was ignited.

During the year twenty-two persons lost their lives from accidents as compared with twenty-four during the year 1917. Of these fatal accidents, three occurred above ground and nineteen below ground. Sixteen persons were seriously injured above ground and forty-four below ground, and twenty-one persons were slightly injured above ground and fifty-six below ground.

In addition to the inspections which have been made, from time to time, of the different mines by the District Inspectors, all fatal and serious accidents have been investigated and all inquests attended.

Samples of mine air have been taken throughout the year by the District Inspectors, in addition to tests made by them, with the Burrell Gas Detector. These samples have been forwarded to the Department of Mines, Ottawa, and to the University of Alberta for analysis.

2,881 safety lamps of the Wolfe type, 35 of the Koehler type, 13 of the Marsaut type, 1,960 electric portable lamps of the Edison type, 600 of the Wico type and 50 of the Ceag type are in use. It will be noted that a considerable increase has taken place in the number of electric safety lamps in use, compared with previous years.

Training in connection with Mine Rescue work has been carried on satisfactorily throughout the year, there being three mine rescue cars and six stations at present in operation. Several appointments were made to fill vacancies caused by the resignations of Superintendents, and in every case a returned soldier received the appointment. When these appointments are made, due consideration is given to a man's efficiency and experience in mining, and in all cases these positions are being satisfactorily filled. On July 1, 1918, a competition in Mine Rescue and First Aid Work was held under the auspices of the Rocky Mountain Branch of the Canadian Mining Institute, at Lethbridge. Fuller particulars of this competition are given in the report under the heading of Mine Rescue Work.

There were 317 coal mines, two copper ore and two shale mines in operation during the year, seventy of which were opened, nine re-

opened and seventy-one abandoned. The mines in the Peace River District which were opened in 1916 have been abandoned, and no coal was produced in that district during the past year.

The total output of coal for the year 1918 was 6,148,620 tons, exceeding that for the year 1917 by 1,285,206 tons. The largest monthly production was during the month of January, when 646,368 tons were produced. Alberta is now in the position, for the first time, of being the largest coal-producing Province in Canada, 40.54 per cent. of the whole output of the Dominion being produced in Alberta.

Nine persons were prosecuted for contravention of The Mines Act during the year, convictions being obtained in each case.

Several changes in the staff of inspectors took place during the year. Mr. James Crowder, formerly manager of the Drumheller Land Co., Ltd., at Drumheller, was appointed District Inspector of Mines, succeeding Mr. William Stevenson, who took the position of General Manager of the Hillcrest Collieries, Ltd., at Hillcrest. Mr. Robert J. Lee, formerly manager of the Rock Springs Coal & Brick Co., Ltd., at Elcan, was appointed District Inspector of Mines for the Edmonton District, this being an additional appointment.

Mr. John W. Hooks was appointed superintendent of Mine Rescue Car No. 3, and Mr. Edward Royle, superintendent of Mine Rescue Car No. 1.

The number of persons employed in mines during December, 1918, was 10,209, being an increase of 397 over the number employed during December, 1917.

The question of widening the market for Alberta coal has received a great deal of attention during the past year, the result being that the amount of coal produced during 1918 exceeded the amount produced during 1917 by 26.42 per cent. On April 29, 1918, I was appointed Fuel Administrator by the Provincial Government to assist Mr. C. A. Magrath, Fuel Controller for the Dominion of Canada. A considerable amount of advertising was done through newspapers and other publications, and in addition a film, 1400 feet in length, showing the different mining operations, was produced, and is at present being shown in different theatres in the Province of Manitoba. Unfortunately the cost of production and freight rates have increased during the last two years to such an extent that it is difficult for Alberta coal to compete satisfactorily against American coal in the Manitoba and Saskatchewan markets. The average cost of production for labor alone, during the twelve months ending May 31, 1918, was \$2.07 per ton for domestic run of mine coal and \$2.01 per ton for steam run of mine coal as compared with \$2.36 per ton for domestic coal and \$2.18 per ton for steam coal for the six months ending December 31, 1918. In addition to this the cost of material has also increased to a great extent.

Although the amount of coal produced during 1918 was considerably in excess of that produced during 1917, this amount only represents approximately 50 per cent. of the possible production in the Province with the present development, and if anything is to be done to obtain the Manitoba market by having a decreased cost of production, the first thing to consider is the question of regulating the

production in such a way that the coal mines in operation should produce at least 80 per cent. of what they are capable of doing. It is also important that only the best grades of coal which we can produce in the Province are shipped into the markets where Alberta coal has to compete with imported coal, and this can only be done by instituting a system of zoning such as has been done in the United States during the last two years. The procedure would, of course, be harmful to the mines producing low grades of fuel, inasmuch as their market would be restricted, but it would undoubtedly be to the benefit of the Province as a whole.

The payroll for labor, at mines alone, during the year 1918, was approximately \$14,000,000, so that it will readily be seen the important part which the mining industry will take in the Province if it is conducted along proper lines.

From figures supplied by the Federal Government, there is a market available for Alberta coal of approximately nine million tons per year, and at least fifty per cent. of this market can only be obtained if all coal is properly prepared, and only that of the best quality is sold in the territory into which American coal is shipped.

*SUMMARY OF STATISTICS

Number of short tons of coal produced	6,148,620
Number of short tons of briquettes produced	100,470
Number of short tons of coke produced	32,858
Number of short tons of shale produced for making bricks	9,898
Number of short tons of bricks sold	7,687
Number of coal mines in operation	317
Number of copper ore mines in operation	2
Number of shale mines in operation	2
Number of mines opened	70
Number of mines re-opened	9
Number of mines abandoned	71
Average number of persons employed above ground	2,633
Average number of persons employed below ground	6,141
Number of separate accidents causing loss of life	21
Number of deaths caused by accidents above ground	3
Number of deaths caused by accidents below ground	19
Number of serious accidents above ground	16
Number of serious accidents below ground	44
Number of slight accidents above ground	21
Number of slight accidents below ground	56
Number of persons prosecuted under The Mines Act	9
Number of Provisional Overmen's Certificates issued during 1918 ..	223
Number of Third Class Certificates issued during 1918	45
Number of Second Class Certificates issued during 1918	28
Number of First Class Certificates issued during 1918	9
Number of Mine Surveyors' Certificates issued during 1918	7
Number of Mine Rescue Certificates issued during 1918	108
Total number of Third Class Certificates issued to date	532
Total number of Second Class Certificates issued to date	253
Total number of First Class Certificates issued to date	185
Total number of Mine Surveyors' Certificates issued to date	140
Total number of Mine Rescue Certificates issued to date	448

* Complete statistics in connection with coal mining in the Province are published in a separate report of the Mines Branch.

Your obedient servant,

JOHN T. STIRLING,

Chief Inspector of Mines.

STEAM BOILERS BRANCH

EDMONTON, January 16, 1919.

L. C. CHARLESWORTH, ESQ.,

Deputy Minister of Public Works,

Edmonton, Alta.

SIR,—I have the honour to submit to you herewith my report covering the work performed by the Steam Boilers Branch during the year ending December 31st, 1918, in accordance with the provisions of The Boilers Act.

Notwithstanding the difficulties experienced during the latter part of the year, owing to serious crop shortage, followed by the epidemic of Spanish Influenza, I am pleased to be able to report that a fairly good average year's work has been accomplished, as will be seen from the individual reports appended hereto from the district inspectors. As a result of the crop shortage at least thirty per cent. of the agricultural boilers were out of service, and consequently not available for inspection, although the weekly returns show that a large number of them were visited by the inspectors during their itinerary through the districts, but were not subject to inspection when the owners did not intend to operate before the end of the year. Portions of each inspection district, including towns and villages, were quarantined during the epidemic, thereby preventing access to the boilers at such points, which also materially increased the car mileage and time lost in travelling from one point of inspection to another. These features have, as you will note, tended to increase the cost of inspection per boiler. It may be added that four of the inspectors were down with the flu, two of them having taken it twice, another was temporarily disabled by injury to his knee while climbing through a boiler manhole.

Acting upon your instructions to abolish the office of assistant inspector of boilers and appoint each member of the staff to an individual district in order that the new license laws, respecting traction and portable boilers, might be administered to better advantage, we subdivided the five original districts into nine inspection areas last April and allotted one to each inspector with headquarters as follows:

Inspector N. Marshall	Sherlock Building, Lethbridge.
" W. Gray	444-8th St. S.E., Medicine Hat.
" A. W. Dick	Lane Block, Main St., High River.
" J. Buxton	Provincial Public Works, Calgary.
" A. Bradshaw	Hanna.
" J. Douglas	Gaetz Ave., Red Deer.
" J. F. Hawkins	Bakken St., Camrose.
" J. H. Mainwaring	Vegreville.
" J. F. Cargill	9927-84th Ave., Edmonton S.

The vacancy in the staff of Inspectors, due to the resignation of Mr. T. J. Hargraves of Lethbridge in the month of December, 1917, was filled by the appointment of Mr. A. Bradshaw as District Inspector of Boilers with headquarters at Hanna in the month of June last.

In addition to the regular monthly examinations of candidates for Engineers' Certificates which are held at the headquarters of each Inspector, twenty-eight fully advertised examinations were held during the month of March at outside places in the northern part of the province, chosen specially for convenience of access, in order to permit of candidates in the outlying districts being accommodated, who otherwise would be put to considerable loss of time and money through having to attend examinations at headquarters. Inspector Mainwaring going as far north as Grande Prairie, Spirit River, High Prairie and Peace River Crossing to accommodate candidates in that territory. It may also be added that special arrangements were made for Mr. Mainwaring to re-visit these places at a later date on a boiler inspection tour, which occupied his time from the 15th of July to the 15th of September, during which he made a survey of about 75 boilers, including some as far north as Fort Vermilion.

Referring to the 1918 amendment to The Boilers Act, I am pleased to be able to report that these have proven of much assistance in promoting the interests of all concerned in boiler inspection service. Sections 4 to 9 inclusive, dealing with the licensing of traction, portable, and semi-portable boilers, were thoroughly advertised through the medium of the newspapers and in addition a circular letter, bearing on the subject, together with an application form for license, was sent under registered cover to some 2,200 owners of this type of boiler. Of this number, 1,496 made application for, and received license plates during the eight months following the enactment of these measures, this being 68 per cent. of the total number affected by them. The balance of the boilers of this type on record with the Department being out of service for reasons already explained. Remarkably few complaints have been received from owners respecting this new departure, or regarding the increase in inspection fees which the new amendment also provided for. I might add that the large amount of extra clerical work created by the administration of the new sections of The Act was undertaken without any increase in the office staff.

The additional work of inspecting Air Tanks and Receivers carrying working pressures exceeding 75 pounds, as provided in Section 11, is also progressing very favorably. These are being overhauled largely during the winter months. A number of plants have been equipped with safety valves, blow down valves and gauges where found deficient, and the piping arrangements of several have been altered with a view to rendering them safe. The working pressures on a number of galvanized tanks have been reduced to a safe limit, especially those in service in public places, such as garages and free air stations. Particulars of these, you will remember, were reported to you in detail last year and resulted in your arranging for their supervision by this Branch.

You will be interested to learn that the Commissioners of the School Board in the city of Calgary have made arrangements for our Inspector to periodically examine the heating boilers in all the public schools in that city, feeling quite satisfied that our inspection is equal to, if not superior to that given by the Insurance Company at a much higher figure.

The past year has been remarkably free from personal injury to anyone in connection with the operation of boilers and engines, no

report having reached the Department of a single case and only a few boiler accidents have been reported. The most noteworthy of the latter being as follows:—

Six 72 inch by 18 feet horizontal tubular boilers contained in the plant of the Ogilvie Flour Mills Company, Medicine Hat, operating under a working pressure of 150 pounds per square inch, were badly over-heated, due to an accumulation of oil on the shell plates. The fire sheets on four of the boilers were so badly damaged that it was decided to ship them to Winnipeg for repairs. New front courses 9-16 inch thick had to be fitted to these and the back and front tube sheets straightened, stays refitted and the boilers re-tubed throughout. Inspector Gray, who surveyed the boilers some time before the damage was done, drew the attention of the Company to the fact of there being oil in the boilers and gave instructions to have all of them thoroughly cleaned out, also to have the condenser filter, which is located between the discharge from air pump and hot well, remodelled so as to more efficiently eliminate the oil from the feed water. Had these instructions been carried out it would have prevented the development of this dangerous situation and have saved the Company thousands of dollars of needless expense in addition to much inconvenience caused by having to close down the mill.

A 54 inch by 18 foot Robb Brady Boiler in service at the North American Collieries plant, Lovett, was reported unsafe by the Master Mechanic, W. H. Hilton, upon his taking charge of the plant. The boiler was at once surveyed by Inspector Cargill, who reported that the furnace tube sheet had cracked through 8 ligaments owing to a heavy deposit of scale having cemented the tube ends together, the whole being solid with the tube sheet, thus preventing the transmission of heat to the water, which resulted in the overheating of the plate. This section of the sheet was forced outwards by internal pressure $\frac{1}{2}$ inch, being just held by one-half of a ligament (about 3-8 inch wide) from being blown out altogether. The Certificate of the former Master Mechanic was temporarily suspended for having permitted the boiler to operate under these conditions, the evidence proving that the crack had gradually developed throughout a period of over six months without being reported to the Department.

Another accident occurred to a 72 inch by 18 foot horizontal tubular boiler at the Camrose Electric Light and Waterworks plant, particulars of which are given in Inspector Hawkins' report appended hereto.

Two Engineers have been suspended for a period of six months, each for having neglected to wash out a 60 inch by 16 feet H. T. boiler, operating at the Western Canada Flour Mills Co., South Edmonton. This boiler had been allowed to run continuously day and night between four and five months without being opened up until the fire sheet became over-heated and forced down near the front head, due to the accumulated deposit. The damaged portion of plate was removed and a patch welded to the sheet and riveted to the front head flange.

Five other Engineers have been reported for minor offences and have been censured.

A number of damaged boilers have been repaired during the year by means of the Oxy-Acetylene and Electric Welding processes, principally to fireboxes, tube sheets and in several cases to the shell

plates of cylindrical boilers. In the latter cases permission to weld has only been granted where the patch abutted against a circumferential seam, thus providing for one side of the patch to be riveted, since it is generally admitted by the best authorities that, where plates are subjected to tensile stress, also to the impact of heat and flame, welded sections have not proved reliable unless supported by stays or rivets, particularly those undertaken by the Oxy-Acetylene process.

An Interprovincial conference was held in Winnipeg between August 26th and September 7th at the Provincial headquarters of The Bureau of Labour, for the purpose of drafting a uniform code of regulations throughout the Dominion, to govern the construction and inspection of all steam boilers, steam heating plants, compressed air tanks and any other tanks or reservoirs used for holding liquid and gaseous substances. Seven provinces sent delegates: British Columbia, Alberta, Saskatchewan and Manitoba being represented by their respective Chief Inspectors; Ontario, by the Chief Inspector, in company with the Chairman of the Bureau of Labour for that province. Nova Scotia was represented by the Minister of Public Works and Mines, and Quebec by the Chief Engineer of the Montreal Waterworks and a member of the Engineers' Examining Board.

I am pleased to report that the conference was a very successful one and the results have, so far, exceeded our expectations. Unfortunately, time did not permit the Board to undertake the work of formulating any regulations for air and gas tank construction, or for an Interprovincial Boilers Act, or the question of framing measures to provide for standard examinations of Engineers and the issue of graded Certificates which would be acceptable throughout the Dominion. These questions were briefly discussed by the Board, but had to be left over for future sessions, which, it was agreed, should be held every six months if sanctioned by the respective Provincial Governments who were represented.

A draft of the proposed code arrived at is about completed, but is now being held pending the decision of the members of the Board regarding the new A.S.M.E. code for heating plants, which they wish to consider in conjunction with what has already been decided upon, the general desire being to act in uniformity with U.S. practice as far as possible, without losing sight of Canadian and British methods and standards.

Since returning from Winnipeg at the close of the conference, a considerable portion of my time has been devoted to going over the proposed draft of uniform regulations, a large volume of business having, of necessity, been left over to be handled later by correspondence. Mr. Peck, the Chairman, and Mr. Blackburn, the Secretary, having been appointed to draw up the final draft. This work it was found would be somewhat heavy, for Mr. Blackburn at any rate, consequently, I volunteered to assist him in every possible way, with a result that the heating boiler regulations were turned over to me and I formulated a draft for their consideration. I may also say that several questions bearing on the regulations have been submitted by various manufacturers, who, of course, are taking a most lively interest in the matter, and it may be necessary for us to meet again at an early date, as I understand that the whole of the regulations have now been reduced to definite shape and are about ready for further consideration by the Board.

Regarding the revenue of the Branch; I am pleased to be able to report a substantial increase in the total amount of fees collected from all sources which exceeds that of last year by \$6,204.84. This increase is largely due to the efforts made by you to secure provision for a general increase in the tariff for boiler inspections, as well as for the issue of First and Second class Certificates and Permits. It was hoped that with the increase in tariff our revenue would practically equal the expenditures for the year, which amounts to \$35,384.14 and it would undoubtedly have done so had it not been for the crop shortage and epidemic already referred to, which was responsible for reducing the number of boilers by about 1,000, that otherwise would have been available for license and inspection.

A total of 1,026 Engineers' and Firemens' Certificates were granted to successful candidates during the year, 34 of these being granted free to members of His Majestys' Forces, who had seen active service overseas, as provided for by Order-in-Council 551-18.

Under the provisions of Section 39 of the Act, 207 Permits were issued to owners of boilers and engines who were unable at the time to secure the services of duly qualified engineers.

The total expenditure for the year was ----- \$35,384.14
 The total revenue for the year was ----- 26,667.19

Boilers visited for inspection purposes total 2,389, comprising 1,984 high pressure and 405 low pressure boilers.

A summary of the various types of boilers inspected during the year is as follows:

Horizontal Tubular -----	472
Horizontal Furnace -----	93
Return Tubular -----	17
Locomotive -----	1181
Vertical -----	210
Water Tube -----	94
Air Receivers -----	65
Steel Heating -----	124
Cast Iron Heating -----	133
Total -----	2389

The condition of these boilers was found to be as follows:

Good -----	1527
Fair -----	693
Moderate -----	125
Poor -----	38
Condemned -----	6
Total -----	2389

Convictions were obtained in six cases of prosecution for violation of The Boilers Act. The aggregate fines imposed and collected amounted to \$175.00.

A schedule of Certificates Issued, Fees Collected, Expenditures of the Branch, and Inspectors' Annual Reports follow.

I have the honour to be, Sir,

Your obedient servant,

F. W. HOBSON,
Chief Inspector of Boilers.

SCHEDULE

	1917	1918
Number of Certificates issued for boilers inspected	2259	2105
Number of advertised examinations held for engineers -----	29	28
Number of First Class Certificates issued -----	9	6
Number of Second Class Certificates issued -----	41	26
Number of Third Class Certificates issued -----	144	135
Number of Traction Final Certificates issued -----	230	163
Number of Firemens' Final Certificates issued -----	27	55
Number of Provisional Certificates issued -----	581	447
Number of Renewal of Provisional Certificates issued -----	169	177
Number of Second Provisional Certificates issued -----	26	19
Number of Permits issued -----	341	207

FEES COLLECTED

	1917	1918
For inspection of boilers -----	\$10,576.00	\$ 7,583.00
For special inspection of boilers, etc. -----	1,955.85	1,420.19
For examination of candidates for final Certificates -----	2,285.00	1,910.00
For Provisional Certificates -----	2,915.00	2,887.50
For Renewal of Provisional Certificates --	423.50	-----
For Second Provisional Certificates -----	130.00	95.00
For Permits -----	1,705.00	1,445.00
For Survey of Drawings -----	475.00	166.50
For the issue of boiler license plates --	-----	11,160.00
Total -----	\$20,462.35	\$26,667.19

EXPENDITURES

For the year ending December 31st, 1918, in connection with the administration of The Boilers Act.		
Salaries and expenses -----	\$28,277.75	
Operation of six automobiles -----	2,982.59	
Railway transportation -----	705.25	
Printing, advertising and sundries -----	3,418.55	
Total -----	\$35,384.14	

LETHBRIDGE, January 2, 1919.

L. C. CHARLESWORTH, ESQ.,

Deputy Minister of Public Works,

Edmonton, Alta.

SIR,—I have the honour to submit to you my annual report for the year ending December 31st, 1918.

Engineers' examination have been held in my office in the Sherlock Block, Lethbridge, on the first Saturday in each month throughout the year. The following shows the number, and classes of certificates recommended:

First Class Certificates -----	1
Second Class Certificates -----	6
Third Class Certificates -----	13
Traction Final Certificates -----	31
Provisional Certificates -----	78
Locomotive Certificates -----	3
Firemens' Final Certificates -----	5
Total -----	137

Five candidates failed to obtain certificates for the class they were trying for, but were granted certificates of a lower grade.

A total of 267 boilers were inspected by me during the year, types and condition of same being as follows:

Types of boilers inspected:

Locomotive -----	116
Horizontal Tubular -----	33
Water Tube -----	24
Dry Back Marine -----	2
Robb Mumford -----	19
Robb Brady -----	4
Vertical Fire Tube -----	19
Steel Heating -----	27
Cast Iron Heating -----	1
Steam Coils -----	3
Air Receivers -----	19
Total -----	267

Condition of boilers inspected:

Good -----	205
Fair -----	56
Moderate -----	6
Total -----	267

I have issued 48 Permits under the provisions of Section 39 of The Boilers Act during the year 1918.

I have not made any special inspections during the year.

I have no accidents to report, none having occurred in this district during the year.

There are no cases to report relative to violation of The Boilers Act.

I have the honour to be, Sir,

Your obedient servant,

N. MARSHALL,

Inspector of Boilers, District No. 1.

MEDICINE HAT, January 2, 1919.

L. C. CHARLESWORTH, ESQ.,

Deputy Minister of Public Works,

Edmonton, Alberta.

SIR,—I have the honour to submit to you my annual report as Inspector of Boilers for the year ending December 31st, 1918.

Examinations were held here at the beginning of each month, and the following are the results of same:

First Class Certificates -----	1
Second Class Certificates -----	1
Third Class Certificates -----	7
Traction Final Certificates -----	8
Provisional Certificates -----	22
Renewal of Provisional Certificates -----	17
Total -----	56

The number of candidates was greatly reduced, as many of the traction engines in this district were not operated.

I inspected a total of 309 boilers during the year, and the following is a summary of the types and condition of same:

Types of boilers inspected:

Locomotive -----	138
Horizontal Tubular -----	71
Water Tube -----	4
Vertical Tubular -----	8
Cast Iron -----	44
Steel Heating -----	42
Tanks -----	2
Total -----	309

Condition of boilers inspected:

Good -----	243
Fair -----	58
Poor -----	8
Total -----	309

Twenty-two Permits were issued under Section 39 of the Act to owners who were unable to secure the services of certified Engineers.

Six boilers in this district were badly damaged, owing to oil being carried over from the condensing equipment with the feed water, and depositing on the heating surfaces, resulting in bulged shell plates and sprung seams. A detailed report was sent to the Department at the time damage occurred.

I am pleased to say there has not been any one fatally or seriously injured in the operation of engines and boilers in this district during the year.

I have the honour to be, Sir,

Your obedient servant,

WM. GRAY,

Inspector of Boilers, District No. 2.

HIGH RIVER, January 2, 1919.

L. C. CHARLESWORTH, ESQ.,

Deputy Minister of Public Works,

Edmonton, Alberta.

SIR,—I have the honour to submit you my annual report as Inspector of Boilers for the year ending December 31st, 1918, as required by section 17, clause 4 of The Boilers Act.

From the beginning of the year until the end of May I worked as assistant to Inspector Buxton in the Calgary district when I was appointed as District Inspector of Boilers and instructed to make my headquarters in High River.

During the year I have recommended the issue of Provisional Certificates after oral examination to 34 candidates and have recommended the issue of renewals of similar certificates in two other cases.

The number of boilers inspected by me during the year total 324, the types and condition of same being as follows:

Types of boilers inspected—

Locomotive -----	212
Horizontal Tubular -----	42
Water Tube -----	20
Vertical -----	26
Cast Iron Sectional -----	5
Air Receivers -----	13
Marine Dry Back -----	3
Gas Absorbtion Tanks -----	3
Total -----	324

Condition of boilers inspected—

Good -----	201
Fair -----	121
Poor -----	2
Total -----	324

Two complaints have been received by me from owners of traction outfits whose boilers they claimed had been damaged through neglect or carelessness on the part of the Engineers in charge. These cases were investigated and particulars of same submitted to the Department for decision.

I have no boiler accidents to report, neither have there been any cases in my district of personal injury to anyone in connection with the operation of boilers and engines.

I have the honour to be, Sir,

Your obedient servant,

A. W. DICK,

Boiler Inspector, District No. 3.

CALGARY, January 2, 1919.

L. C. CHARLESWORTH, ESQ.,

Deputy Minister of Public Works,

Edmonton, Alberta.

SIR,—I have the honour to submit to you my annual report as Inspector of Boilers for the year ending December 31st, 1918, in accordance with Section 17-4 of The Boilers Act.

Examinations of candidates for Engineers' Certificates have been held in the office of the Provincial Public Works, Calgary, on the first Saturday of each month, as a result of which I recommended the issue of the following Certificates:

First Class Certificates -----	2
Second Class Certificates -----	6
Third Class Certificates -----	25
Traction Final Certificates -----	32
Firemens' Final Certificates -----	29
Provisional Certificates -----	89
Total -----	183

A total of 219 boilers have been inspected and 218 Inspection Certificates issued, types and condition of boilers being as follows:

Types of boilers inspected—

Horizontal Tubular	105
Water Tube	14
Loco Firebox	45
Vertical	41
Robb Mumford	5
Marine Dry Back	2
Railway Locomotives	2
Cast Iron Sectional	3
Air Receivers	2
Total	219

Condition of boilers inspected—

Good	90
Moderate	86
Fair	43
Total	219

During the year 20 locomotive boilers of the traction type have had to be repaired, principally in the fireboxes of same, 11 crown sheets have been strightened up and larger radial stays put in up to 1 1-8 inch where required. Six back sheets and firehole rings have been repaired. Six horizontal tubular boilers have been retubed, also ten vertical and eight locomotive type boilers. Four large stationary locomotive boilers have had to be retubed and electrically welded in cracked bridges of the tube sheet, the crown and side sheets of these had also to be straightened up. Two locomotives coming under the Boilers Act have been retubed and thoroughly overhauled, one of them requiring a new firebox with the exception of the crown sheet. Both engines were also given a general overhauling. Eight safety valves were also found to be defective, three being repaired and the balance being replaced by new ones. All the aforementioned work being supervised from this office.

Sixty Permits have been issued during the year under the provisions of Section 39 to owners of boilers who were unable at the time of application to secure the services of duly qualified Engineers.

There have been no accident cases of any kind in this district during the year in connection with the operation of boilers and engines.

I have the honour to be, Sir,

Your obedient servant,

JOS. BUXTON,

Boiler Inspector, District No. 4.

HANNA, January 6, 1919.

L. C. CHARLESWORTH, ESQ.,

Deputy Minister of Public Works,

Edmonton, Alberta.

SIR,—I have the honour to submit to you my annual report for the year ending December 31st, 1918, in accordance with section 17-(4) of The Boilers Act.

Examinations of candidates for Engineers' Certificates have been held at Hanna on the first Saturday in each month, as a result of which I recommended the issue of the following certificates:

Second Class Certificates -----	1
Third Class Certificates -----	4
Traction Final Certificates -----	4
Provisional Certificates -----	17
Renewal of Provisional Certificates -----	3
Total -----	29

The following shows the number, type and condition of boilers inspected by me in this district during the year:

Types of boilers inspected—

Locomotive -----	154
Horizontal Tubular -----	20
Water Tube -----	1
Internal Furnace -----	7
Vertical Fire Tube -----	6
Air Receivers -----	2
Cast Iron Heating -----	6
Total -----	196

Condition of boilers inspected—

Good -----	132
Fair -----	37
Moderate -----	23
Condemned -----	4
Total -----	196

I have to report two cases of prosecution under Section 40 and 26 of The Boilers Act. A conviction with fines was secured in both cases.

Thirteen Permits were issued in accordance with Section 39 of The Boilers Act.

I have to report that through a fire which occurred in the boiler room of the power plant at the Hamilton Coal Companys' Mine located at Wayne, Alberta, two boilers were so badly damaged that it was necessary to condemn them for further use as high pressure boilers. Investigation revealed the fact that the miners had been storing their powder in a cupboard located in the boiler room and through careless handling on the part of someone powder had been scattered around the floor. The Engineer dropped some live coals on the floor which ignited the powder and set fire to the whole plant. The Engineer suffered severe injury by being burned with flames.

Inspection work was all completed in this district early in December and from that time to the end of the year I have been assisting Inspector Buxton in overhauling the various heating plants in the city of Calgary.

I have the honour to be, Sir,

Your obedient servant,

A. BRADSHAW,

Inspector of Boilers, District No. 5.

RED DEER, January 2, 1919.

L. C. CHARLESWORTH, ESQ.,
Deputy Minister of Public Works,
 Edmonton, Alberta.

SIR,—I have the honour to submit to you my annual report as Inspector of Boilers in District No. 6, for the year ending December 31st, 1918, in accordance with the provisions of Section 17-(4) of The Boilers Act.

The re-arranging of the inspection districts in the early part of the summer interfered a little with the routine work at that time, otherwise, it has proved to be a distinct advantage in many ways. The fact of there now being three examination centres, where formerly only one existed, greatly reduces the travelling expenses of candidates to a point of examination, as previously from some parts in the district it took from five to eight days for an engineer to make the round trip. The inspector also does not lose so much time in returning to the headquarters at the end of the month. The boiler owners are also better satisfied on account of receiving an improved service and correspondence has been noticeably less.

Letters dispatched during the year total 1,120. Forty-five of these being sent out under registered cover.

I held the usual monthly examinations for Engineers at Camrose on the first Saturday in each month up to and including May, when I was transferred to Red Deer since which time they have been held at that point. The spring examinations were also held at Wainwright, Provost, Sedgewick, Monitor, Coronation, Stettler, Red Deer, Alix and Lacombe.

During the year I recommended the issue of 160 Certificates to candidates, graded as follows:

Second Class Certificates -----	1
Third Class Certificates -----	13
Traction Final Certificates -----	37
Firemens' Final Certificates -----	2
Provisional Certificates -----	75
Renewal of Provisional Certificates -----	21
Second Provisional Certificates -----	11
Total -----	160

Two of the candidates were returned soldiers, and, as instructed, no fees were charged them.

During parts of the year some of the plant owners experienced difficulty in securing qualified engineers, but I am pleased to say that conditions in this respect have wonderfully improved. Better conditions have also obtained in the district regarding hours of labour and salaries paid for engineers and firemen, who, in many instances, are now working on eight hour shifts, and in practically all cases their salaries have been increased approximately 50 per cent. This will, I think, lead to the improvement of the calibre of the engineers and tend to stabilize them, as last year I noticed an unusual number of them floating around unnecessarily. Many good engineers have taken up farming and a few with shop experience have gone into the automobile repair business.

During the months of January, February, March and April I inspected stationary boilers at Ardley, Ponoka, Brazeau Collieries, Red Deer, Provost, Coronation, Monitor and Camrose, and during the rest of the year I inspected in the new district from Hobbema down to Acme, east of the Calgary and Edmonton Railway, and part of the district west of that road.

The number of boilers inspected totalled 257 and Certificates issued, 220. 209 being power boilers and the rest heating.

Condition of boilers inspected:

Good	-----	156
Very Fair	-----	85
Fair	-----	16
Total	-----	257

The roads in my district are improving right along, and even out West, around Rocky Mountain House, great improvements can be noticed.

Two special inspections of boilers were made by me during the year, all expenses incidental thereto being defrayed by the owners in accordance with Section 16 of The Boilers Act.

Sixteen Permits were issued to owners under Section 39 of the Act, upon production of satisfactory evidence on Form 20 regarding their inability to secure the services of duly qualified engineers.

No accidents were reported to me during the year, but I have to report that Engineer William Boettger of Mayton practically lost the sight of an eye through the bursting of a gauge glass some time in the year 1917. This was not reported to me until well on in 1918.

One man was prosecuted for violation of Section 38 of the Act, and a conviction obtained.

I have had to recommend the limiting of an Engineer's Second Class Certificate, owing to the unsatisfactory condition in general of the plant over which he had been placed in charge.

Regarding the new regulations for the licensing of traction, portable and semi-portable boilers, I was surprised to find how well boiler owners had attended to this matter, as in only three instances did I find boilers which had been operated without the necessary license. After going into these cases, I found their plea of ignorance regarding the license law was substantiated, so did not prosecute, but merely collected the license fee. In last year's report I mentioned that the farmers were well advised in buying the one man gasoline tractor. This is in the main correct, but am sorry to say that in numerous instances the farmer has been buying poorly designed tractors, with the result that the manufacturers have been gaining experience at his expense.

I have the honour to be, Sir,

Your obedient servant,

JOHN DOUGLAS,

Inspector of Boilers, District No. 6.

CAMROSE, January 6, 1919.

L. C. CHARLESWORTH, ESQ.,
Deputy Minister of Public Works,
 Edmonton, Alberta.

SIR,—I have the honour to submit to you my annual report as Inspector of Boilers for District No. 7 for the year ending December 31st, 1918, in accordance with Section 17-(4) of The Boilers Act.

Engineers' examinations were held by me on the first Saturday of each month during the year in the Fire Hall, Camrose. Below is a summary of the Certificates recommended:

Traction Final Certificates -----	6
Provisional Certificates -----	14
Renewals of Provisional Certificates -----	13
Second Class Certificates -----	3
Total -----	<u>36</u>

Three candidates failed to qualify for the class written for, but were granted Certificates of a lower grade.

Part of the territory covered by me in the Rocky Mountain House district had not been visited by an Inspector for some years. Needless to say I found a number of boilers operating in an unsafe condition. One of these I condemned, and on some of the others I cut the pressure down to what I considered a safe limit; some others I sealed up until repaired and a hydrostatic test applied.

The following is a summary of the boilers inspected by me and condition of same:

Locomotive -----	180
Horizontal Tubular -----	30
Return Flue -----	6
Vertical Tubular -----	9
Heating Steel -----	15
Heating Cast Iron -----	20
Air Receivers -----	3
Total -----	<u>263</u>

Condition of boilers inspected—

Good -----	150
Very Fair -----	69
Fair -----	26
Sealed up for repairs -----	17
Condemned -----	1
Total -----	<u>263</u>

I have no accidents to report resulting in the personal injury to anyone. The nearest approach to an accident of this nature I have to report is the bagging of a 72 inch by 18 foot horizontal-tubular boiler in the first course, starting about 11½ inches from the front head flange, and extending 15 inches longitudinally by 12 inches circumferentially by 4 inches deep, the metal drawing down to 1-16 inch. This was caused by mud collecting on the fire sheet. The boiler had only been in service one week after washing, and I am satisfied this accident would never have happened under usual operating conditions, as the quantity of dirt I found upon opening the boiler would not, in itself, be sufficient under the ordinary conditions of hand

firing to cause a bulge like this. A mechanical stoker had been installed under this boiler equipped with forced draft and had been in operation one week when this accident happened. It had been the usual custom under the ordinary conditions to wash out every two weeks, but, owing to the intense heat in the furnace, due to the forced draft and the fact of the boiler being forced more than it would be under ordinary working conditions in order to test the efficiency of the stoker, a very small amount of dirt on the fire sheet would cause considerable damage. This fact was evidently not taken into consideration by the engineer in charge and was an error of judgment on his part. The boiler has since been repaired and the pressure reduced to what I considered a safe limit.

Nine Permits were issued under Section 39 of the Act to owners who were unable to secure the services of duly qualified engineers.

Two special inspections were made by me; all expenses incidental thereto being paid by the owner, in accordance with Section 16 of the Act.

I have no cases of violation of the Act to report.

Your obedient servant,

J. F. HAWKINS,

Inspector of Boilers, District No. 7.

EDMONTON, January 3, 1919.

L. C. CHARLESWORTH, ESQ.,

Deputy Minister of Public Works,

Edmonton, Alberta.

SIR,—I have the honour to submit to you my annual report as Inspector of Boilers for the year ending December 31st, 1918, in accordance with the requirements of clause 4, section 17 of The Boilers Act.

The months of January and February were devoted to the inspection of boilers situated along the line of G.T.P. and C.N. Railways West of Edmonton. In the month of March I went north as far as Grande Prairie for the purpose of holding examinations of candidates for engineers' certificates at several points in the Peace River country, after which I commenced to inspect boilers in the Vermilion and St. Paul des Metis district, a break being made in this itinerary to permit of my going north again to inspect boilers in that part of the province located north of Mirror Landing, finishing this work at Fort Vermilion.

During the year I have recommended the issue of Engineers' Certificates to 85 successful candidates, classified as follows:

Second Class Certificates -----	2
Third Class Certificates -----	4
Traction Final Certificates -----	6
Firemens' Final Certificates -----	4
Provisional Certificates -----	44
Renewal of Provisional Certificates -----	25
Total -----	85

266 boilers were inspected by me during the year, the types and condition of same being as follows:

Types of boilers inspected—

Horizontal Tubular	22
Locomotive Firebox	136
Internal Furnace	25
Water Tube	6
Vertical	18
Air Receivers	5
Heating (steel)	39
Heating (cast iron)	15
Total	266

Condition of boilers inspected—

Good	156
Fair	100
Poor	8
Bad	1
Condemned	1
Total	266

Five special inspections of boilers were made during the year, the owners defraying all expenses incidental thereto as required by Section 16 of the Act.

Fourteen Permits have been issued to owners of plants on production of evidence of their inability to immediately secure the services of qualified engineers.

Two cases of violation of the provisions of Section 6 of the Act were brought to my notice and turned over to the Provincial Police Authorities.

I have no accidents to report in connection with the operation of boilers and engines during the year.

I have the honour to be, Sir,

Your obedient servant,

J. H. MAINWARING,

Boiler Inspector, District No. 8.

EDMONTON, January 21, 1919.

L. C. CHARLESWORTH, ESQ.,

Deputy Minister of Public Works,

Edmonton, Alberta.

SIR,—I have the honour to submit to you my annual report as Inspector of Boilers for the year ending December 31st, 1918, in accordance with clause 4, section 17 of The Boilers Act.

As in former years, the early months were devoted to inspection work in and around Edmonton and to the inspection of boilers in the districts west of Edmonton, most of which are accessible by G. T. P. and C. N. Railways.

In addition to the regular monthly examinations for engineers, which have been held in Edmonton on the first Saturday in each month throughout the year, special spring examinations were held at ten outside points during the month of March.

The following summary shows the number of candidates, and classes of certificates recommended:

First Class Certificates -----	1
Second Class Certificates -----	7
Third Class Certificates -----	41
Traction Final Certificates -----	19
Firemens' Final Certificates -----	12
Provisional Certificates -----	101
Renewal of Provisional Certificates -----	26
Total -----	207

This shows a considerable falling off in the number of candidates as compared with the previous year, the decrease being most noticeable in the Traction and Provisional class, due probably to poor crops and consequent inactivity of many agricultural engines.

Eleven candidates failed to qualify for the class written for, but were granted certificates of a lower grade, and several applicants were refused examination owing to their inability to produce evidence of having had the necessary experience.

The total number of boiler inspections made by me during the year is 269, and the number of certificates issued 258.

The various types of boilers are enumerated as follows:

Horizontal Tubular -----	102
Water Tube -----	23
Locomotive Firebox -----	51
Vertical -----	54
Internal Furnace -----	17
Return Flue -----	5
Marine -----	5
Incinerator -----	1
Cast Iron Sectional -----	5
Compressed Air Tanks -----	6
Total -----	269

Condition in which the foregoing were found:

Good -----	184
Fair -----	75
Moderate -----	8
Poor -----	2
Total -----	269

Nine special inspection of boilers were made at the request of the respective owners, all expenses incidental thereto being defrayed by them as required by Section 16 of The Boilers Act, but as most of these inspections were made at considerable distance from headquarters a good deal of time was taken up, and regular inspection work interfered with to some extent.

Under Section 39 of The Boilers Act, 5 Permits were granted to owners of steam boilers, who at the time of their application were unable to secure the services of duly qualified engineers.

I am pleased to be able to report that although the district has not been entirely free from accidents to boilers, these have been for the most part of a minor nature, and no personal injury, or loss of life has been sustained by anyone in the operation of boilers and engines.

I have no cases to report regarding violation of any sections of the Act.

I have the honour to be, Sir,

Your obedient servant,

J. F. GARGILL,

Inspector of Boilers, District No. 9.

ARCHITECTURAL BRANCH

EDMONTON, January 20, 1919.

L. C. CHARLESWORTH, ESQ.,
Deputy Minister of Public Works,
Edmonton, Alberta.

SIR,—I have the honour to submit a report on the work of the Architectural Branch of the Department of Public Works for the year 1918.

The work undertaken by this branch during the year 1918 was considerably in excess of that performed during any previous year since 1914. This has been brought about by the construction of various buildings under our own department, and also the increased demand for architectural service to other Government departments. The work carried out for the Education Department has increased enormously in connection with rural school construction; and the services rendered in connection with municipal hospitals for the Department of Municipal Affairs has become a most important part of the service of this branch.

The work of new construction was fairly large considering the period, and consisted of the preparation of designs and the erection of buildings at Ponoka Asylum and Taber, besides various other smaller buildings, all of which are mentioned in detail below.

The maintenance and repair of all provincial buildings continues under the care of this branch, with the exception of gaols and the asylum buildings. This work has been carried out in a most satisfactory manner and at a cost well within the estimate provided for the work, and all the buildings under the care of this branch have been kept in first class condition. This work of maintenance is steadily increasing and to keep pace with the demand a most efficient organization has been built up to carry out the work with expedition and at low cost. The woodworking plant operating in Edmonton is proving a great asset in assisting to keep the maintenance work up to the best possible standard. The plant continues to turn out all the woodwork required for buildings in the Edmonton district, special work for other buildings throughout the Province and also a considerable quantity of special furniture. A detailed summary of the work performed is as follows:

PONOKA ASYLUM.—Plans and specification were prepared with all necessary details for the construction of a Sick and Chronic Ward to accommodate seventy-five male patients. A good deal of special study was given to this matter and the design evolved is, I believe, almost the ideal for the purpose. This is the first of a group of small units which mark a new departure in asylum construction in Western Canada. Tenders were called for the erection of the building and the contract awarded in April to the lowest bidder, Mr. H. G. Macdonald, General Contractor, Edmonton. Construction has been carried out in a satisfactory manner and the building is now approaching completion. Many difficulties had to be contended with on the construction of

this building owing to the difficulty of securing both labour and material, and the building was, unfortunately, shut down for practically one month during the Influenza Epidemic.

Towards the end of the year further plans and specification were prepared and tenders called for on the erection of a Male Dormitory to accommodate one hundred patients and a Dining Hall for two hundred patients, these being further buildings in the group above mentioned. This dormitory building is slightly larger than the first building of the group, but similar in all other respects. The lowest tender received, that of Messrs. Thomas, Jamieson, McKenzie, Ltd., of Calgary, was accepted and the work of construction will be commenced in the early spring. These buildings, it is expected, will be ready for occupation well before the end of the year.

TABER BUILDING.—Plans, specification and necessary details were prepared and tenders called for on the erection of a building at Taber for the accommodation of Court Offices, including a small room for district court purposes, and also providing accommodation for the Provincial Police. This building is of a very simple design, but most pleasing and satisfactory in every way. The contract was awarded to Messrs. Hotson & Depew of Medicine Hat, who submitted the lowest tender. The building is now completed and occupied.

PARLIAMENT BUILDING.—A good deal of alteration work has been carried out in this building owing to a re-distribution of space to the various departments. This work is now practically completed and has resulted in providing improved accommodation to the departments affected, but it is quite evident that some scheme for providing added space for departmental purposes must be undertaken in the very near future. With this in view sketch plans were prepared for a departmental building suitable for erection on the Parliament Building Grounds and these drawings were submitted for your approval. A small amount of new work was performed on the grounds consisting principally of tree planting. The principal undeveloped portions of the grounds were used for garden allotments for members of the Civil Service.

QU'APPELLE BUILDING.—Various sketches were prepared for adaptation of certain buildings in Edmonton to provide office accommodation for Government Departments, and eventually the Qu'Appelle Block, located on McDougall Avenue, directly opposite the Court House, was leased from the owners, Messrs. Brown & Hargraves, on the understanding that the building would be altered and completed in accordance with the requirements of the plans prepared by this branch, and the building is now completed and occupied, providing accommodation for the Returned Soldiers Commission, Vital Statistics Branch, Public Utilities Commission and the Provincial Police. There is also provided in the basement Excise and Customs Stores in connection with the Provincial Liquor Vendor's Branch.

UNIVERSITY OF ALBERTA.—The services of this branch have been demanded in connection with the preparation of drawings and the construction of a horse and cattle barn for the University, and also the erection of a large greenhouse. This work has been carried out and completed in a manner satisfactory to the University authorities.

SCHOOLS OF AGRICULTURE.—Drawings and details were prepared for the erection of blacksmith's shops at the Schools of Agriculture, and the building at Olds was constructed and is now completed ready for use.

MUNICIPAL HOSPITALS.—With a view to getting this work down to a satisfactory basis, I have personally given the matter of hospital planning, especially the small hospitals, a good deal of very serious study, and have also had the privilege of meeting several committees of medical men and graduate nurses and with these discussing the subject. I also visited several of the hospitals now in operation in the Province with a view to obtaining a clearer understanding of the problem involved. As a result of these conferences and study this branch has evolved a number of carefully thought out sketch plans suitable for hospitals in rural municipalities, with accommodation ranging from ten to forty beds. These sketches are now available for use when the policy of the Government as to the construction of these hospitals is definitely fixed.

Complete contract drawings were also prepared for one hospital of ten beds, which it is proposed to erect at Mannville. The Hospital Board called for tenders on its erection and it is anticipated that a contract will be awarded immediately and the construction of this building under the supervision of this branch proceeded with in the early spring. Inspections were made of hospitals at Athabasca, Taber, Cardston and Islay, and the condition and suitability of these buildings reported upon. Drawings were prepared for certain alterations and improvements to the hospital building at Athabasca, a contract awarded and the work carried out under the supervision of this branch.

TUBERCULAR HOSPITAL, BOWNESS.—The Honorable the Minister of Municipalities submitted for my inspection plans of a proposed Tubercular Hospital, which it is intended to erect jointly by the Dominion and Provincial Governments. These plans were carefully gone over and reported upon to the Minister, and as a result, amended plans have been submitted.

RURAL SCHOOLS.—The work of supervision of school building plans exercised by this branch for the Department of Education show a marked increase over that of 1917. The building value represented by plans passed through this branch for 1918 being approximately \$600,000.00, which is about three times the value of the work reported upon during the previous year. A proportion of the projected buildings, however, did not materialize owing to the financial situation. Many of the larger school buildings were constructed in the consolidated districts and are, I believe, giving every satisfaction.

The work of correspondence, interviews and inspection of plans and buildings incidental to the above volume of work has been correspondingly increased. No new plans have been issued, though several are contemplated, together with some improvements to the regulations. In connection with a portion of the work submitted for approval to this branch, which did not materialize, it is unfortunate that some system has not been devised whereby this branch would be informed as to the amount of money which will be available for the construction of the buildings upon which a report is requested. If some such sys-

tem could be devised I feel that a good deal of the unnecessary trouble might be saved, and the district could be informed as to whether or not they are likely to secure the buildings desired for the amount available.

I have the honour to be, Sir,

Your obedient servant,

R. P. BLAKEY,

Provincial Architect.

PROVINCIAL INSTITUTIONS

HOSPITAL FOR THE INSANE.

PONOKA, January, 1919.

THE HON. A. J. McLEAN,
Minister of Public Works,
 Edmonton, Alberta.

SIR,—I have the honour to submit to you the Report for the year ending 1918, being the Eighth Annual Report of the Hospital for the Insane, Ponoka.

On the first day of January, 1918, there were in residence 567 patients, 392 males and 175 females. At the close of the year there were 517 patients, 323 males and 194 females. This apparent decrease in the male patients is due to the transfer of 111 men (including 31 soldiers) to the Hospital for Returned Soldiers, Red Deer. There are still in residence at the latter Institution 105 men (including 28 soldiers) making a total of 428 male patients resident in the two hospitals at the close of the year.

Two imbecile boys, aged 12 and 13½ years respectively, were transferred to the Home for Mentally Defective Children, Edmonton, on December 15th.

The admissions were 142 males and 90 females, a total of 232. The number of patients discharged was 102, as follows:

	Male	Female	Total
Recovered -----	41	34	75
Recovered (Red Deer) -----	2	--	2
Improved -----	3	17	20
Improved (Red Deer) -----	2	--	2
Not Improved -----	1	2	3
Total -----	49	53	102

During the year 46 males (including 4 at Red Deer) and 53 females, a total of 99, were sent out on probation. Of these 1 male and 4 females, classified as improved, were returned to the Hospital.

Three men eloped. Two were returned but the third has not been heard of since.

The recovery rate, based on the total admissions for the year, is, in the case of the males, 30.28 per cent., and in that of the females, 37.77 per cent. The recovery rate, therefore, for both sexes is 33.18 per cent.

The deaths numbered 78, namely: 56 males (including 2 at Red Deer) and 22 females.

The death rate, based on the total number under treatment, is, for the males, 10.48 per cent. and for the females, 8.39 per cent., or for both sexes, 9.76 per cent.

Since the war began 45 soldiers have been admitted with the following results:

	1916	1917	1918	Total
Admitted -----	8	16	21	45
Disch. Recovered -----	1	5	5	11
Disch. Recovered (Red Deer) -----	--	--	1	1
Disch. Improved (Red Deer) -----	--	--	2	2
Died -----	--	1	1	2

About the middle of October the first case of influenza appeared in a female patient who had been admitted a day or two previously. Notwithstanding every precaution the disease became epidemic amongst the patients and staff and 266 cases occurred with a mortality of 31 (20 males, 9 females and 2 attendants). Early in November the epidemic was on the wane and by the middle of the month it was at an end.

The new building for the treatment of acute cases (males) was begun in May and should be completed in March or April next. Many modern principles have been introduced, thereby facilitating the management and treatment of the acutely insane.

In addition to the general upkeep of the buildings the following have been painted: basement of the Administration Building; male and female reception wards; hallway and adjoining rooms of the first floor and hallway of the second floor of the Administration Building; lavatories and vestibules of the first and second floors of the Chronic Male Building.

A greenhouse (50x25 feet), the frame of which was on hand last year, was constructed and has proved useful for growing plants for the wards.

Much work was done in clearing, grading and terracing the grounds in front of the buildings and about half the driveway was seeded in grass.

A root-house (80x28 feet) was constructed and a garage for the Ford truck built.

Two units of the Hinman Milker were installed in the cow barn during the summer and proved so successful over the slower and more unsanitary method of hand-milking that six more units were added.

Owing to the drought, hot dry winds and cutworm, the crops were below the average and with the exception of the green peas and lettuce the vegetable garden was a failure.

It is estimated that 362 acres of the farm are under cultivation; of this acreage 290 were in crop last year, 60 were cleared of brush and broken and 12 were used as hog pasture.

Two quarter sections adjoining the farm were purchased.

The yearly average net cost per capita is \$274.70.

The daily average net cost per capita is 75 cents.

In concluding, we desire to express our indebtedness to the various Departments for their support and assistance.

I have the honour to be, Sir,

Your obedient servant,

E. H. COOKE,

Medical Superintendent.

TABLE No. 1
Showing the number of Admissions, Discharges, and Deaths during 1918.

Month	Admissions			Discharges			Deaths		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
January	18	4	22			1	2		2
February	8	9	17	3	1	5	1	2	3
March	12	9	21	3	2	5	4	1	5
April	18	6	24	8	4	12	7	3	10
May	11	8	19				(Red Deer) 1		1
June	14	12	26	6	4	10	4	1	5
July	8	5	13	7	6	13	3	1	4
August	9	4	13	1	3	4	3		3
September	9	4	13		7	7	1	1	2
				1	3	4	3	2	5
October	6	9	15	(Red Deer) 1		1	7		15
				2	5	7		8	
November	18	11	29	(Red Deer) 1	3	1	17	3	20
							(Red Deer) 1		1
December	11	9	20	(Red Deer) 2	13	2	2		2
				14		27			
Total	142	90	232	49	53	102	56	22	78

DEPARTMENT OF PUBLIC WORKS

TABLE No. 2

Showing the civil state of patients admitted during 1918.

Civil State	Male	Female	Total
Single -----	98	18	116
Married -----	35	66	101
Widowed -----	8	6	14
Divorced -----	1	--	1
Total -----	142	90	232

TABLE No. 3

Showing the religious denomination of those admitted during 1918.

Religious Denomination	Male	Female	Total
Anglican -----	24	8	32
Baptist -----	5	2	7
Christian Science -----	2	1	3
Congregationalist -----	1	2	3
Jewish -----	2	1	3
Lutheran -----	17	17	34
Mennonite -----	1	--	1
Methodist -----	14	10	24
Moravian -----	1	1	2
Mormon -----	2	2	4
Orthodox Church -----	13	8	21
Other Protestant -----	1	2	3
Presbyterian -----	16	20	36
Quaker -----	1	1	2
Roman Catholic -----	42	15	57
Total -----	142	90	232

TABLE No. 4

Showing the degree of education of those admitted during 1918.

Degree of Education	Male	Female	Total
Superior -----	3	3	6
Common school -----	123	77	200
Could not read or write -----	--	--	--
None -----	16	10	26
Total -----	142	90	232

TABLE No. 5

Showing the nationality of those admitted during 1918.

Nationality	Male	Female	Total
Austria -----	17	15	32
Belgium -----	--	1	1
Canada -----	37	23	60
England -----	17	9	26
Finland -----	1	2	3
France -----	1	1	2
Germany -----	2	--	2
Ireland -----	6	1	7
Italy -----	1	--	1
Japan -----	1	--	1
Norway -----	3	3	6
Roumania -----	1	--	1
Russia -----	9	6	15
Scotland -----	6	5	11
South America -----	1	--	1
Spain -----	1	--	1
Sweden -----	1	5	6
United States -----	35	19	54
Wales -----	2	--	2
Total -----	142	90	232

TABLE No. 6

Place of residence at time of committal, 1918.

Place	Male	Female	Total
Alderson -----	--	1	1
Andrew -----	1	--	1
Angle Lake -----	--	1	1
Ardrossan -----	--	1	1
Athabasca -----	--	1	1
Barrhead -----	1	--	1
Bassano -----	--	1	1
Battle Ridge -----	--	1	1
Beaumont -----	1	--	1
Benalto -----	1	1	2
Big Fork -----	1	--	1
Blairmore -----	1	--	1
Blue Sky -----	1	--	1
Borszczow -----	1	--	1
Bow Island -----	2	--	2
Boyne Lake -----	1	--	1
Brooks -----	1	--	1
Cadogan -----	--	1	1
Calgary -----	34	12	46
Campbell -----	--	1	1
Camrose -----	--	1	1
Canmore -----	--	1	1
Carbon -----	1	--	1
Caroline -----	1	--	1
Castor -----	1	1	2
Cheadle -----	1	--	1
Chipman -----	1	--	1
Claresholm -----	--	1	1
Coalhurst -----	1	--	1
Cochrane -----	1	--	1
Cold Lake Reserve -----	1	--	1

TABLE No. 6.—*Continued.*

Place	Male	Female	Total
Coleman	—	1	1
Colinton	—	1	1
Commerce	1	—	1
Consort	1	—	1
Coronation	1	—	1
Craigmyle	1	—	1
Daysland	1	1	2
Delia	—	1	1
Didsbury	—	3	3
Drumheller	1	—	1
Duffield	—	1	1
Eckville	—	1	1
Edgerton	—	1	1
Edmonton	17	13	30
Edson	1	—	1
Empress	1	—	1
Ferintosh	1	—	1
Foremost	1	—	1
Fort Fitzgerald	1	—	1
Fort Saskatchewan	1	—	1
Ghost Pine	1	—	1
Girouxville	—	1	1
Gleichen	—	1	1
Grandin	1	—	1
Haight	—	1	1
Hairy Hill	1	—	1
Hay Lakes	1	—	1
High River	—	1	1
Innisfail	2	—	2
Innisfree	1	—	1
Inverness	1	—	1
Irricana	1	—	1
Irvine	1	—	1
Kairwell	—	1	1
Lafond	1	—	1
Lamont	1	—	1
Leavitt	1	—	1
Leduc	1	—	1
Legal	1	—	1
Lethbridge	1	2	3
Lewisville	1	—	1
Loverna, Sask.	—	1	1
Manyberries	1	—	1
Majorville	1	—	1
McLaughlin	1	—	1
Meadow Brook	1	—	1
Medicine Hat	1	4	5
Meeting Creek	—	1	1
Millet	—	1	1
Mission	—	1	1
Morinville	—	1	1
Morningside	—	1	1
Mossleigh	1	—	1
Munson	1	—	1
Nugent	1	—	1
New Norway	1	—	1
Olson Coulee	1	—	1
Onion Lake	—	1	1
Oyen	1	—	1
Peace River	1	—	1
Plain Lake	—	1	1
Priddis	—	1	1
Provost	2	—	2
Radway Centre	1	—	1

TABLE No. 6.—*Continued.*

Place	Male	Female	Total
Rearville -----	1	--	1
Red Deer -----	1	--	1
Red Willow -----	1	--	1
Rochester -----	--	1	1
Rocky Mt. House -----	--	1	1
Roros -----	--	1	1
Roselea -----	1	--	1
Rossington -----	1	--	1
Rumsey -----	--	1	1
St. Albert -----	1	--	1
Schuler -----	1	--	1
Seba Beach -----	--	1	1
Sedgewick -----	1	--	1
Seven Persons -----	--	1	1
Sexsmith -----	1	--	1
Slawa -----	1	--	1
Smoky Lake -----	1	1	2
Spirit River -----	2	1	3
Spruce Grove -----	1	--	1
Staveley -----	1	--	1
Stettler -----	--	1	1
Stony Plain -----	--	3	3
Strome -----	--	1	1
Stry -----	1	--	1
Sundre -----	--	1	1
Three Hills -----	1	--	1
Tofield -----	1	--	1
Trochu -----	1	2	3
Vegreville -----	1	1	2
Verdant Valley -----	1	--	1
Vermilion -----	1	--	1
Viking -----	--	2	2
Vulcan -----	--	1	1
Wabamun -----	--	1	1
Westlock -----	2	--	2
Wetaskiwin -----	1	1	2
Youngstown -----	1	--	1
Zincton, B. C. -----	1	--	1
Total -----	142	90	232

DEPARTMENT OF PUBLIC WORKS

TABLE No. 7

Showing the occupation of those admitted during 1918.

Occupation	Male	Female	Total
Baker -----	1	--	1
Bank clerk -----	1	--	1
Carpenter -----	1	--	1
Car repairer -----	1	--	1
Charwoman -----	--	1	1
Chauffeur -----	1	--	1
Clerk -----	1	1	2
Contractor -----	1	--	1
Copper smelter -----	1	--	1
Dairyman -----	1	--	1
Farmer -----	50	--	50
Home -----	--	5	5
Housemaid -----	--	3	3
Housewife -----	--	69	69
Indian -----	1	--	1
Insurance agent -----	1	--	1
Labourer -----	34	--	34
Lawyer -----	1	--	1
Mail driver -----	1	--	1
Mechanic -----	1	--	1
Miner -----	5	--	5
Music teacher -----	--	1	1
No occupation -----	9	6	15
Piano-tuner -----	1	--	1
Poulterer -----	1	--	1
Saleswoman -----	--	1	1
Shoe repairer -----	1	--	1
Soldier -----	21	--	21
Stock buyer -----	2	--	2
Storekeeper -----	2	--	2
Student -----	--	1	1
Teacher -----	--	1	1
Teamster -----	1	--	1
Trapper -----	1	--	1
Waitress -----	--	1	1
Total -----	142	90	232

TABLE No. 8

Showing the ages of those admitted during 1918.

Ages	Male	Female	Total
10 to 15 -----	1	2	3
15 to 20 -----	11	7	18
20 to 25 -----	22	9	31
25 to 30 -----	26	18	44
30 to 35 -----	17	16	33
35 to 40 -----	17	14	31
40 to 45 -----	14	5	19
45 to 50 -----	10	11	21
50 to 55 -----	8	2	10
55 to 60 -----	7	4	11
60 to 65 -----	2	1	3
65 to 70 -----	3	--	3
70 to 75 -----	1	--	1
75 to 80 -----	2	--	2
80 to 85 -----	1	--	1
85 to 90 -----	--	1	1
Total -----	142	90	232

TABLE No. 9

Showing statistics of heredity in those admitted during 1918.

Heredity	Male	Female	Total
Paternal Branch -----	18	14	32
Maternal Branch -----	8	9	17
Paternal or Maternal -----	18	17	35
Said not to be Heredity -----	52	36	88
History insufficient -----	46	14	60
Total -----	142	90	232

TABLE No. 10

Showing the alleged causes of the attack of insanity, 1918.

Alleged causes	Male	Female	Total
Accident -----	2	1	3
Active Service -----	7	--	7
Alcohol -----	9	1	10
Alcoholic Heredity -----	10	3	13
Cardio-vascular degeneration -----	4	1	5
Childbirth -----	--	12	12
Cocaine -----	--	1	1
Epilepsy -----	9	3	12
Epileptic Heredity -----	1	5	6
Hemiplegia -----	1	--	1
Heredity -----	36	33	69
Heredity Suspected -----	27	17	44
Hysteria -----	--	2	2
Ill-health -----	2	6	8
Imbecility -----	4	5	9
Influenza -----	10	4	14
Injury to head -----	5	1	6
Interstitial Nephritis -----	2	--	2
Isolation -----	7	1	8
Lactation -----	--	4	4
Masturbation -----	3	1	4
Menopause -----	--	2	2
Mental stress, sudden -----	3	5	8
Mental stress, prolonged -----	10	17	27
Mumps -----	1	--	1
Not known -----	12	4	16
Operation -----	2	1	3
Overwork -----	--	1	1
Over-study -----	1	--	1
Pregnancy -----	--	1	1
Puberty -----	--	1	1
Rheumatism (Acute) -----	1	1	2
Shell-shock -----	1	--	1
Syphilis -----	9	1	10
Tonsilitis -----	--	1	1

TABLE No. 11

Showing the state of bodily health on admission during 1918.

Bodily Condition	Male	Female	Total
In average bodily health -----	34	15	49
In reduced health -----	103	67	170
In greatly reduced health -----	5	8	13
Total -----	142	90	232

TABLE No. 12

Showing the form of mental disorder in those admitted during 1918.

Form of Disorder	Male	Female	Total
Arterio-pathic Dementia -----	7	1	8
Confusional Insanity -----	2	1	3
Dementia Praecox -----	26	9	35
Epileptic Insanity -----	9	2	11
General Paralysis -----	11	3	14
Imbecility with Epilepsy -----	1	1	2
Imbecility without Epilepsy -----	6	3	9
Manic—Depressive Insanity			
Mania, Acute delirious -----	--	1	1
Mania -----	54	42	96
Melancholia -----	23	25	48
Paranoia -----	3	2	5
Total -----	142	90	232

TABLE No. 13

Showing number allowed out on probation, and results, in 1918.

Results	Male	Female	Total
Discharged, Recovered -----	39	34	73
Discharged, Recovered (Red Deer) ---	2	--	2
Discharged, Improved -----	2	17	19
Discharged, Improved (Red Deer) -----	2	--	2
Discharged, Not Improved -----	1	2	3
Returned to Hospital -----	2	4	6
Still out at close of year -----	18	31	49

TABLE No. 14
Record of Deaths during 1918.

Reg. No.	Name	Sex	Age	Time in Hospital			Cause of death.
				Years	Months	Days	
1070	Oates, George	M	35	1	--	23	General Paralysis.
1271	McInnes, Neil	M	54	--	2	6	Mitral Regurgitation; cardiac failure.
1126	Gosling, Louisa	F	46	--	10	18	General Paralysis.
1056	L'Huillier, Julius	M	46	1	3	8	General Paralysis.
1211	Drebert, Amalia	F	61	--	7	4	Senile Dementia; Chronic Brain Atrophy.
1321	Hartman, Annie	F	46	--	--	9	Acute Delirious Mania; Exhaustion.
25	Plante, Felix	M	67	6	8	16	Chronic Interstitial Nephritis.
31	Bird, Albert John	M	38	6	8	21	Pulmonary Tuberculosis.
1029	Hill, Duncan	M	19	1	5	25	Pulmonary Tuberculosis.
938	Edwards, James	M	77	2	--	--	Arterio-sclerosis; Gangrene of right foot.
1232	Wootten, Alfred	M	31	--	6	20	Acute Melancholia; Malnutrition; Collapse.
1346	Roth, Catherine	F	45	--	--	8	Acute Mania; Exhaustion.
613	Stromsen, Edwin C.	M	27	3	8	16	Epilepsy; Suffocation.
1341	Schubert, Mary	F	45	--	--	19	Acute Mania; Exhaustion.
673	Hrenuk, Dymter	M	22	3	4	16	Acute Lobar Pneumonia.
764	Petranchuk, John	M	52	2	10	7	
1354	Penner, Erich	M	44	--	1	14 (Red	Deer) Coronary Embolism.
127	Elmira, Margaritha	F	68	6	--	7	Acute General Peritonitis.
394	Podlowski, John	M	30	4	8	23	Pulmonary Tuberculosis.
81	Fletcher, Edward D.	M	38	6	10	16	Pulmonary Tuberculosis.
87	Thorp, William Thomas	M	34	6	9	5	Status Epilepticus; Exhaustion.
857	Witwicki, Mary	F	21	2	10	6	Pulmonary Tuberculosis.
1282	Johnston, John	M	49	--	6	8	Pulmonary Tuberculosis.
412	Parker, Alexander	M	39	4	4	17	Pernicious Anaemia.
343	Erickson, Ludwig A.	M	70	5	9	22	General Paralysis.
1169	Nelson, Gustave	M	40	1	3	15	Pulmonary Tuberculosis.
490	Taylor, William	M	60	4	--	2	General Paralysis.
					5	2	Huntington's Chorea.

1014	Zimmerman, Christina	F	57	1	9	21	Chronic Melancholi; Chronic brain atrophy.
1391	Desaulniers, Peter	M	67	--	--	16	Cerebral Thrombosis; Hemiplegia.
1219	Iyatchya, Harry	M	40	--	10	9	Pulmonary Tuberculosis.
1368	Kellar, James	M	61	--	2	6	Aortic Regurgitation; Cardiac Exhaustion
1142	Robb, Thomas	M	33	--	3	2	General Paralysis.
985	Jones, John B.	M	46	1	1	6	General Paralysis.
1078	Sandholm, Axel	M	50	1	8	--	Spinal Caries (Tubercular).
130	Harding, Kate	F	62	7	--	30	Huntington's Chorea.
1186	Tweedle, William	M	71	1	1	20	Cellulitis of neck.
1236	Red Crown, Solomon	M	29	--	11	26	Epilepsy; Acute mania; Exhaustion.
1264	Converse, Stephen	M	46	--	10	16	Epilepsy; Chronic Brain Atrophy.
1447	Greenberg, Sama	F	58	--	--	15	Acute Mania; Exhaustion.
1444	Hale, Anna	F	35	--	--	26	General Paralysis.
1461	Swain, Charles	M	75	--	--	11	Arterio-sclerosis; Syncope.
1465	Spraggs, Edith J.	F	33	--	--	10	Influenza; Broncho-pneumonia.
1464	Clarke, Ada	F	36	--	--	13	Influenza; Broncho-pneumonia.
1343	Chorney, Nestor	M	39	--	7	5	Influenza; Broncho-pneumonia.
1175	Jones, George Wm.	M	16	1	4	27	Epilepsy.
470	Boucon, Marie	F	48	4	--	16	Influenza; Broncho-pneumonia.
538	Malawany, Andrew	M	27	4	7	2	Influenza; Br'o-pneumonia. Haemorrhage.
1084	Denton, Albert	M	73	1	9	11	Influenza; Broncho-pneumonia.
1389	Thomson, Eva Mary	F	32	--	5	2	Influenza; Broncho-pneumonia.
1469	Wuobio, Olga	F	48	--	--	6	Influenza; Broncho-pneumonia.
641	Crook, May	F	21	4	--	29	Influenza; Broncho-pneumonia.
1441	McAllister, Margaret	F	60	--	--	5	Influenza; Broncho-pneumonia.
1438	Charter, Marjorie	F	13	--	2	16	Influenza; Broncho-pneumonia.
90	Pederson, Peter	M	45	7	3	7	Influenza; Broncho-pneumonia.
660	Bort, William	M	37	3	11	18	Influenza; Broncho-pneumonia.
381	Woods, John Wesley	M	30	5	5	11	Influenza; Br'o-pneumonia. Haemorrhage.
588	Knowles, Ray	M	25	4	4	20	Influenza; Broncho-pneumonia.
1428	Dagsgard, Edwin	M	26	--	3	10	Influenza; Broncho-pneumonia.
1390	Poncilius, Gottlieb	M	24	--	5	2	Influenza; Br'o-pneumonia. Haemorrhage.
563	Rinaldi, Marco	M	37	4	6	--	Influenza; Broncho-pneumonia.
103	Sieversen, Oscar	M	31	7	--	4	Influenza; Capillary Bronchitis.
1313	Bredeson, Edwin	M	53	--	8	24	Broncho-pneumonia.
84	Strong, Earl	M	26	7	3	9	Broncho-pneumonia.
69	Breland, Louis	M	33	7	3	10	Broncho-pneumonia.
1240	Rohl, George	M	26	--	7	12	Broncho-pneumonia.

TABLE No. 14—Continued.

Reg. No.	Name	Sex	Age	Time in Hospital			Cause of death.
				Years	Months	Days	
974	Phillion, Rene	M	26	2	5	3	Influenza; Broncho-pneumonia.
185	Cook, George Thomas	M	31	7	2	15	Influenza; Broncho-pneumonia.
1094	Larsen, Nils	M	33	1	10	2	Influenza; Broncho-pneumonia.
761	Dorey, Oscar	M	26	3	6	--	Influenza; Broncho-pneumonia.
312	Tailleur, Josaphat	M	25	6	--	15	Pulmonary Tuberculosis.
17	Lauder, Alex.	M	46	7	3	18	Influenza; Pleurisy.
992	Honos, Yilko	M	22	2	4	12 (Re	deer) Influenza; Broncho-pneumonia.
482	Lefley, Cicely	F	22	4	10	26	Epilepsy, Syncope.
1103	Bakken, Gertrude	F	26	1	8	13	Influenza; Broncho-pneumonia.
1477	McGillivray, Johanna	F	34	--	--	8	Acute mania, Exhaustion.
1485	Soldus, John	M	30	--	--	3	Acute mania, Exhaustion.
77	Angus, Robert	M	74	7	4	28	Enlarged Prostate, Cystitis.
1498	Hudgson, Samuel	M	18	--	--	27	Pleuro-pneumonia.

FARM CROP AND YIELD PER ACRE FOR THE YEAR 1918.

Crop	No. of Acres.	Total Yield	Per Acre.
Oats -----	125	4,300 bush.	34 bush.
Wheat -----	9	180 "	20 "
Turnips -----	10	3,000 "	300 "
Potatoes -----	40	7,000 "	175 "
Rhubarb -----	2	9,140 lbs.	4,570 lbs.
Green Feed -----	29	58 tons	2 tons.
Timothy -----	75	75 "	1 ton.

FARM PRODUCE SUPPLIED TO THE HOSPITAL DURING 1918.

Beef -----	48,978 lbs.	\$5,386.63
Butter -----	6,013 lbs.	1,653.45
Beets -----	160 lbs.	1.60
Butter Milk -----	1,940 gals.	99.00
Carrots -----	12,942 lbs.	129.42
Cream -----	923 pts.	92.30
Eggs -----	5,934 only	174.82
Leeks -----	288 lbs.	2.88
Milk (New) -----	23,690 gals.	5,839.38
Milk (Skim.) -----	10,465 gals.	523.25
Onions -----	4,020 lbs.	40.20
Poultry -----	102 only	51.00
Parsnips -----	510 lbs.	5.10
Pork -----	14,666 lbs.	1,613.26
Potatoes -----	195,563 lbs.	1,955.63
Rhubarb -----	9,140 lbs.	91.40
Turnips -----	8,885 lbs.	88.85
		<hr/> \$17,748.17

FARM EXPENDITURE FOR THE YEAR 1918.

Blacksmith and Repairs -----	\$ 195.90
Feed -----	7,812.17
Harness -----	78.40
Leases -----	93.33
Live Stock -----	6,631.55
Lumber -----	27.95
Machinery and Implements -----	583.68
Miscellaneous -----	1,020.29
Rent -----	175.00
Salaries -----	5,212.53
Seed for Farm and Garden -----	958.43
Threshing Expenses -----	228.95
Garage and Work Shop -----	432.05
	<hr/> \$23,450.23

DEPARTMENT OF PUBLIC WORKS

STOCK ON HAND DECEMBER 31st, 1918.

	Quantity	Value	Total
Horses -----	16-----	\$ 4,000.00	
Colts -----	2-----	360.00	
Drivers -----	2-----	100.00	
			\$ 4,460.00
Cows -----	71-----	7,810.00	
Bull -----	1-----	250.00	
Oxen -----	3-----	450.00	
Beef Cows -----	2-----	160.00	
Beef, Dressed -----	20-----	1,500.00	
Calves -----	8-----	480.00	
Two Year Olds -----	14-----	1,120.00	
			11,770.00
Sows -----	13-----	650.00	
Pigs, under 3 months -----	40-----	320.00	
Pigs, over 3 months -----	99-----	2,970.00	
Pigs, Dressed -----	10-----	300.00	
Boar -----	1-----	50.00	
			4,290.00
Hens -----	150-----	100.00	
			100.00
Separator -----	1-----	130.00	
Churn and Motor -----	1-----	280.00	
Can Washer -----	1-----	30.00	
Milk Cans -----	5-----	15.00	
Pails -----	10-----	10.00	
Cream Cans -----	4-----	10.00	
Wagons -----	8-----	500.00	
Buggies -----	2-----	100.00	
Rig -----	1-----	80.00	
Cart -----	1-----	60.00	
Potato Diggers -----	2-----	800.00	
Potato Planter -----	1-----	50.00	
Potato Sorter -----	1-----	48.00	
Rake -----	1-----	45.00	
Mowers -----	2-----	210.00	
Drill -----	1-----	80.00	
Disk -----	1-----	60.00	
Cultivator -----	1-----	165.00	
Spreaders -----	1-----	180.00	
Drays -----	2-----	50.00	
Breaking Plows -----	2-----	130.00	
Walking Plow -----	1-----	5.00	
Drill Plow -----	1-----	25.00	
Binders -----	2-----	200.00	
Straw Cutter -----	1-----	75.00	
Grinder -----	1-----	50.00	
Scale -----	1-----	30.00	
Eight Ton Scale -----	1-----	185.00	
Pulper -----	1-----	9.00	
Rake -----	1-----	40.00	
Scuffler, Single -----	1-----	5.00	
Scuffler, Double -----	1-----	40.00	
Gang Plows -----	2-----	75.00	
Garden Drills -----	2-----	18.00	
Cutter -----	1-----	58.00	
Sleighs -----	5-----	140.00	
Packer -----	1-----	50.00	
		3,538.00	
Less 10% Depreciation -----		353.80	
			3,184.20
Vise -----	1-----	10.00	
Emery Grinders -----	2-----	10.00	
Block and Tackle -----	1-----	15.00	
Saw -----	1-----	3.00	

STOCK ON HAND—Continued.

	Quantity	Value	Total
Meat Saw -----	1-----	\$ 1.00	
Ice Saws -----	3-----	9.00	
Ice Tongs -----	3-----	3.00	
Crow-bar -----	1-----	1.00	
Chains -----	2-----	2.00	
Fencing Outfit -----	1-----	10.00	
Hoes -----	18-----	8.00	
Scoop Shovels -----	4-----	5.00	
Square Shovels -----	2-----	2 00	
Post Auger -----	1-----	2.50	
Garden Rake -----	1-----	1.00	
Butcher Knives -----	10-----	5.00	
Water Troughs -----	5-----	100.00	
Hay Rakes -----	2-----	40.00	
Wheel Barrows -----	4-----	6.00	
Slings -----	8-----	40.00	
Coal Boxes -----	4-----	40.00	
Grain Boxes -----	3-----	45.00	
Scyth Snaths -----	2-----	4.00	
Picks -----	3-----	3.00	
Grub Hoes -----	6-----	4.00	
Forks -----	5-----	6.00	
Coal Forks -----	2-----	6.00	
Round Shovels -----	6-----	6.00	
Axes -----	6-----	6.00	
Lawn Mower -----	1-----	5.00	
		398.50	
Less 20% Depreciation -----		79.70	
			\$318.80
Robes -----	3-----	15.00	
Team Harness -----	8-----	180.00	
Driving Harness -----	2-----	45.00	
Cart Harness -----	1-----	20.00	
Saddles -----	2-----	18.00	
Blankets -----	6-----	9.00	
Set Single Harness -----	1-----	8.00	
Oxen Harness -----	2-----	12.00	
		307.00	
Less 10% Depreciation -----		30.70	
			276.30
Hay (tons) -----	60-----	990.00	
Timothy (tons) -----	40-----	1,200.00	
Potatoes (bush.) -----	3800-----	3,800.00	
Turnips (bush.) -----	1600-----	960.00	
Parsnips (bush.) -----	50-----	60.00	
Barley (bush.) -----	250-----	250 00	
Wheat (bush.) -----	160-----	320.00	
Oats (bush.) -----	4100-----	3,362.00	
			10,942.00
			<u>\$35,341.30</u>

DEPARTMENT OF PUBLIC WORKS.

FARM PRODUCE SOLD DURING THE YEAR 1918:

Cattle -----	\$ 282.00	
Calves -----	665.50	
Hogs -----	2,253.71	
Hides -----	616.50	
Milk to Employees -----	192.90	
Potatoes and Vegetables -----	2,161.00	
		<u>\$6,171.61</u>

VALUE OF CROP GROWN DURING THE YEAR 1918:

Oats (bush.) -----	4300 -----	\$3,526.00	
Wheat (bush.) -----	180 -----	360.00	
Green Feed (tons) -----	58 -----	580.00	
Timothy (tons) -----	75 -----	2,250.00	
			<u>\$6,716.00</u>
Total Farm Produce supplied -----		\$17,748.17	17,748.17
Total Farm Produce sold -----		6,171.61	
Total value of crop grown -----		6,716.00	
			<u>\$30,635.78</u>
Board supplied Engineers -----		127.85	127.85
Clothing supplied Red Deer -----		45.45	45.45
			<u>\$30,809.08</u>
			\$30,809.08

STOCK ON HAND DECEMBER 31st, 1918.

GROCERIES

	Quantity		Value	Total
Butter -----	1568	lbs. -----	\$ 760.48	
Bacon, sides -----	80	lbs. -----	37.60	
Cheese -----	275	lbs. -----	79.75	
Crisco -----	4800	lbs. -----	1,302.00	
Eggs -----	19	doz. -----	9.69	
Ham -----	156	lbs. -----	60.84	
Oleomargerine -----	360	lbs. -----	120.60	
Salmon -----	252	tins -----	75.60	
				\$2,446.56
Barley -----	565	lbs. -----	33.90	
Beans -----	525	lbs. -----	63.00	
Bran -----	200	lbs. -----	2.50	
Cornstarch -----	81	lbs. -----	10.12	
Cornflakes -----	30	pkgs. -----	3.30	
Flour, Purity -----	77	sacks -----	411.95	
Macaroni -----	80	lbs. -----	9.60	
Oatmeal -----	50	lbs. -----	2.25	
Rolled Oats -----	4	sacks -----	21.00	
Rice -----	1120	lbs. -----	100.80	
Sugar -----	15895	lbs. -----	1,589.50	
Split Peas -----	250	lbs. -----	31.25	
Tapioca -----	1050	lbs. -----	178.50	
				2,457.67
Apples, Evap. -----	360	lbs. -----	72.00	
Apples, Green -----	1	case -----	3.25	
Apricots, Evap. -----	215	lbs. -----	53.75	
Corn -----	72	tins -----	14.40	
Fruit -----	142	tins -----	35.50	
Jam, Rhubarb -----	319	lbs. -----	79.75	
Marmalade -----	42	tins -----	29.40	
Prunes -----	395	lbs. -----	54.23	
Pumpkin -----	3	tins -----	.69	
Raisins, Seedless -----	10	pkgs. -----	1.40	
Raisins, Seeded -----	46	pkgs. -----	6.44	
Tomatoes -----	33	tins -----	4.45	
				355.26
Baking Powder -----	90	lbs. -----	15.13	
Baking Soda -----	85	lbs. -----	5.52	
Coffee -----	246	lbs. -----	55.35	
Cassai -----	1½	lbs. -----	.60	
Extract Lemon, 1 oz. -----	10	bttls. -----	1.25	
Extract Vanilla -----	10	bttls. -----	5.00	
Extract Lemon -----	4	bttls. -----	2.00	
Ginger -----	85	lbs. -----	29.75	
Mustard -----	1½	lbs. -----	.60	
Nutmeg -----	2	lbs. -----	.90	
Pepper -----	36½	lbs. -----	12.77	
Rennet -----	7	bttls. -----	1.75	
Root Ginger -----	5	lbs. -----	1.50	
Soda Biscuits -----	756	lbs. -----	105.84	
Salt -----	3838	lbs. -----	76.76	
Tea -----	435	lbs. -----	156.60	
Vegetables -----	42	tins -----	5.25	
Vinegar -----	225	gals. -----	123.75	
Water Glass -----	11	tins -----	2.75	
				603.07
Coffee Mill -----				30.00
				\$5,892.56

LAUNDRY AND CLEANING

Bon Ami -----	441	pkts. -----	\$ 45.57
Brooms (Hair) -----	28	only -----	48.44
Brooms (Corn) -----	98	only -----	63.70
Brushes (Block) -----	63	only -----	31.50
Blue -----	71	pkts. -----	28.40

DEPARTMENT OF PUBLIC WORKS

LAUNDRY AND CLEANING—Continued.

	Quantity		Value	Total
Bath Brick -----	11	cks. -----	\$.88	
Chip Soap -----	1605	lbs. -----	160.50	
Cleanser -----	398	tins -----	37.81	
Clothes Whisks -----	7	only -----	1.85	
Dust Pans -----	9	only -----	3.33	
Floor Wax -----	12	tins -----	5.52	
Gold Soap -----	5694	bars -----	370.11	
Lye -----	31	tins -----	4.65	
Laundry Starch -----	57	lbs. -----	13.68	
Parawax -----	114	cks. -----	17.10	
Pearline -----	36	pkts. -----	1.98	
Ronuk -----	3	gals. -----	6.90	
Roatch Powder -----	95	tins -----	19.00	
Shoe Polish -----	111	tins -----	14.43	
Shaving Soap -----	28	cks. -----	4.48	
Shaving Brushes -----	8	only -----	2.48	
Scrubbing Brushes -----	101	only -----	17.17	
Sal. Soda -----	45	lbs. -----	1.00	
Toilet Soap -----	583	cks. -----	46.64	
Toilet Paper -----	968	pkts. -----	48.40	
Wire Scrubbers -----	4	only -----	.68	
				<u>\$996.20</u>

BOOTS AND SHOES

Boots, Men's -----	356	pair -----	\$1,068.00	
Boots, Men's -----	9	pair -----	32.40	
Boots, Men's -----	40	pair -----	90.00	
Boots, Men's -----	36	pair -----	102.60	
Boots, Women's -----	41	pair -----	104.55	
Boots, Women's -----	73	pair -----	164.25	
Boots, Women's -----	57	pair -----	142.50	
Rubber Overshoes -----	13	pair -----	40.55	
Slippers, Men's -----	37	pair -----	49.95	
Slippers, Women's -----	61	pair -----	36.60	
				<u>\$1,831.40</u>

CLOTHING

Buttons -----	294	doz. -----	\$ 5.88	
Galatea -----	484	yds. -----	133.10	
Hair Pins -----	86	pkgs. -----	4.30	
Khaki Cloth -----	100	yds. -----	26.00	
Men's Caps -----	262	only -----	293.64	
Men's Cotton Shirts -----	137	only -----	183.58	
Men's Grey Pants -----	82	pair -----	247.64	
Men's Khaki Pants -----	69	pair -----	97.98	
Men's Mackinaws -----	20	only -----	100.00	
Men's Mackinaws -----	12	only -----	115.20	
Men's Mackinaws -----	63	only -----	504.00	
Men's Mitts -----	84	pair -----	105.00	
Men's Mitts -----	47	pair -----	14.10	
Men's Overalls -----	8	pair -----	15.84	
Men's Overalls -----	44	pair -----	88.00	
Men's Sox, Lumbermen -----	29	pair -----	29.00	
Men's Sox -----	5	pair -----	1.75	
Men's Smocks -----	4	only -----	8.00	
Men's Suits -----	127	only -----	1,016.00	
Men's Drawers -----	131	pair -----	150.65	
Men's Vests -----	175	only -----	201.25	
Pins -----	352	pkgs. -----	17.60	
Suspenders -----	108	pair -----	37.80	
Sheepskin Coats -----	13	only -----	74.75	
Thread -----	485	spls. -----	29.10	
Tape -----	13	spls. -----	.39	
Women's Hose -----	168	pair -----	100.80	
Women's Drawers -----	300	pair -----	345.00	

CLOTHING—Continued.

	Quantity		Value	Total
Women's Vests -----	339	only -----	\$ 389.85	
Women's Bath Caps -----	3	only -----	2.25	
Women's Underskirts -----	30	only -----	37.50	
Wool -----	316	sk. -----	53.72	
				<u>\$4,429.67</u>

MISCELLANEOUS

Beds, Epileptic -----	5	only -----	\$ 68.75	
Blankets -----	4	only -----	21.00	
Blanket, Mangle -----	30½	yds. -----	48.80	
Counterpanes -----	108	only -----	432.00	
Mattresses -----	4	only -----	42.16	
Pillow Cotton -----	63	yds. -----	27.29	
Red Quilts -----	49	only -----	98.00	
Sheeting -----	3348	yds. -----	1,372.68	
Sheets -----	2	only -----	2.40	
				<u>\$2,113.08</u>
Bath Towelling -----	41	yds. -----	14.35	
Bath Sheets -----	37	only -----	27.75	
Hand Towels -----	140	only -----	49.00	
Huck Towelling -----	301	yds. -----	69.23	
Roller Towels -----	30	only -----	22.50	
Sheeting, Webb -----	124	yds. -----	84.32	
Sheeting, Mangle -----	6	yds. -----	21.00	
Tea Towelling -----	322	yds. -----	97.40	
				<u>385.55</u>
Cups -----	45	only -----	4.95	
Cups, Small -----	18	only -----	.90	
Cream Pitchers -----	12	only -----	2.16	
Cream Pitchers -----	12	only -----	1.68	
Cake Tins -----	4	only -----	1.00	
Casseroles -----	2	only -----	1.00	
Coffee Boilers -----	6	only -----	13.50	
Dippers -----	10	only -----	4.40	
Enamel Pitchers -----	8	only -----	17.20	
Enamel Plates -----	175	only -----	28.00	
Enamel Wash Basins -----	2	only -----	2.00	
Enamel Tea Pots -----	5	only -----	3.50	
Enamel Cups -----	141	only -----	23.26	
Egg Cups -----	83	only -----	4.15	
Fruit Bowls -----	3	only -----	1.50	
Forks -----	10½	doz. -----	21.42	
Gravy Pots -----	6	only -----	2.40	
Glass Tumblers -----	4	only -----	.28	
Goblets -----	3	only -----	1.50	
Jars, Bean -----	6	only -----	1.50	
Knives, Wood Handled -----	10½	doz. -----	21.42	
Knives, Silver -----	46	only -----	9.20	
Lemon Squeezers -----	7	only -----	1.05	
Mouse Traps -----	12	only -----	.60	
Mustard Dishes -----	6	only -----	.60	
Plates, Dinner -----	215	only -----	23.65	
Plates, Tea -----	51	only -----	3.06	
Plates, Soup -----	77	only -----	9.24	
Plates, Bread and Butter -----	18	only -----	1.08	
Pitchers, Water -----	6	only -----	4.50	
Pitchers, Small -----	9	only -----	.45	
Pudding Dishes -----	3	only -----	2.25	
Pudding Dishes -----	6	only -----	2.70	
				<u>216.10</u>
Platters, Small -----	6	only -----	.90	
Platters, Large -----	4	only -----	2.40	
Pails -----	16	only -----	8.16	
Roast Pan -----	1	only -----	2.50	

DEPARTMENT OF PUBLIC WORKS

MISCELLANEOUS—Continued.

	Quantity		Value	Total
Soap Dishes -----	17	only -----	\$ 1.53	
Sugar Bowls -----	28	only -----	2.80	
Sugar Bowls -----	6	only -----	.30	
Soup Bowls -----	11	only -----	1.10	
Soup Bowls, Small -----	21	only -----	1.05	
Soup Tureens -----	4	only -----	2.40	
Saucers, Small -----	18	only -----	.90	
Saucers -----	110	only -----	13.20	
Salad Dishes -----	4	only -----	1.00	
Shakers, Salt -----	11	only -----	2.09	
Spoons, Dessert -----	5	doz. -----	1.10	
Spoons, Table -----	10½	doz. -----	2.52	
Trays -----	6	only -----	6.18	
Vegetable Dishes -----	6	only -----	2.70	
				52.83
Matches -----	253	doz. -----	31.62	
Tobacco, Smoking -----	152	lbs. -----	121.60	
Tobacco, Chewing -----	132	pgs. -----	14.52	
				167.74
Apron Linen -----	486	yds. -----	182.25	
Coarse Combs -----	21	only -----	3.78	
Dress Goods -----	1020	yds. -----	280.50	
Factory Cotton -----	560½	yds. -----	114.90	
Gauze -----	1330	yds. -----	133.00	
Hooks and Eyes -----	11	gro. -----	2.75	
Hair Brushes -----	9	only -----	3.51	
Laces, Cotton -----	4	doz. -----	.75	
Laces, Leather -----	6	doz. -----	1.44	
Rugs -----	2	only -----	12.00	
Sewing Needles -----	38	pgs. -----	2.35	
Thimbles -----	48	only -----	2.40	
W. Pads -----	9	only -----	.90	
White Duck -----	256¼	yds. -----	79.57	
				820.10
				<u>\$3,755.40</u>

EXPENDITURE FOR THE YEAR 1918.

FOR THE HOSPITAL

Salaries -----	\$35,886.50	
Subsistence -----	28,312.31	
Boots and Shoes -----	1,576.02	
Clothing -----	3,744.83	
Miscellaneous -----	6,486.54	
Laundry and Cleaning -----	4,045.41	
Drugs and Medical Supplies -----	325.92	
Papers and Magazines -----	88.17	
Office Expenses -----	285.03	
Divine Services -----	425.00	
Interments -----	840.00	
Transportation and Travelling Expenses -----	258.65	
		<hr/>
		\$82,274.38

FOR THE POWER HOUSE

Salaries -----	\$12,641.28	
Fuel -----	22,287.79	
Equipment and Operating -----	10,283.82	
		<hr/>
		\$45,212.89

FOR MAINTENANCE

Salaries -----	2,349.00	
Painting and Decorating -----	3,424.39	
General Repairs -----	683.48	
New Greenhouse -----	1,388.25	
New Fixtures -----	1,502.90	
Gas Well -----	254.91	
		<hr/>
		\$9,602.93

PER CAPITA COST FOR THE YEAR ENDING DECEMBER 31st, 1918.
Average Number of Patients in Residence-----562.

	Stock on hand December 31st, 1917	Expenditure	Farm Products	Total	Less stock on hand December 31st, 1918	Net Cost
Salaries -----		\$35,886.50		\$35,886.50		\$35,886.50
Subsistence -----	\$ 5,250.97	28,312.31		33,563.28	\$ 5,892.56	27,670.72
Boots and Shoes -----	1,225.90	1,576.02		2,801.92	1,831.40	970.52
Clothing -----	3,885.02	3,744.83		7,629.85	4,429.67	3,200.18
Miscellaneous -----	2,270.54	6,486.54		8,757.08	3,755.40	5,001.68
Laundry and Cleaning -----	371.15	4,045.41		4,416.56	996.20	3,420.36
Drugs and Medical Supplies -----	500.00	325.92		825.92	500.00	325.92
Papers and Magazines -----		88.17		88.17		88.17
Office Expenses -----		285.03		285.03		285.03
Divine Services -----		425.00		425.00		425.00
Interments -----		840.00		840.00		840.00
Transportation and Travelling Expenses -----		258.65		258.65		258.65
Farm and Vegetable Garden -----	39,427.20	23,450.23	\$17,748.17	80,625.60	35,341.30	45,284.30
Power House -----		45,212.89		45,212.89		45,212.89
Maintenance -----		9,602.93		9,602.93		9,602.93
	\$52,930.78	\$160,540.43	\$17,748.17	\$231,219.38	\$52,746.53	\$178,472.85

Net Cost -----	\$178,472.85	Yearly Average Net Cost per Capita -----	\$274.70
Less Revenue -----	6,344.91	Daily Average Net Cost per Capita -----	.75
Less Farm Products -----	\$172,127.94		
	17,748.17		
	<u>\$154,379.77</u>		

LETHBRIDGE GAOL

LETHBRIDGE, January 7, 1919.

THE HON. A. J. McLEAN,
Minister of Public Works,
Edmonton, Alberta.

SIR,—I have the honour herewith to submit the Eighth Annual Report of the Provincial Gaol, Lethbridge, along with the usual statistical tables, which are worthy of careful study.

The average prison population for the past year has been 100.57, which is a considerable increase over last year.

It has been a year of severe trial in many ways, especially owing to the continued drought, with hot, dry, strong winds during the summer and the visitation of Influenza during the early winter months.

The general health has been good, and in spite of the prevalence of Influenza we only had one death among all the inmates and staff as a result of it.

While we had less rainfall than usual this year we used more irrigation water on our farm, with the result that we had a satisfactory yield. But without the general application of the irrigation water, our crop would have been a dismal failure.

The securing of satisfactory help continues to be a serious proposition but perhaps with the coming of Peace we may be able to secure men who will take an interest in this class of work.

I thank you for your untiring interest in this Institution and for much valuable advice and assistance during the year.

Also your departmental staff have been uniformly courteous and attentive to all business matters referred to them.

I have the honour to be, Sir,

Your obedient servant,

J. H. RIVERS,

Warden.

PRISONERS POPULATION, 1918

Month	Daily Average	Admitted		Discharged	
		Com.	Sent	Com.	Sent
January -----	87.32	14	32	4	21
February -----	103.72	9	26	1	22
March -----	102.39	5	24	2	31
April -----	97.7	5	23	3	28
May -----	104.29	8	35	5	30
June -----	93.6	8	23	2	51
July -----	95.71	14	39	3	45
August -----	99.93	4	30	3	36
September -----	93.97	7	30	4	26
October -----	100.26	11	22	2	28
November -----	109.1	6	24	1	24
December -----	118.9	5	20	2	15
Average for Year -----	100.574	96	328	32	357

	Com.	Sent
Prisoners in Gaol, Dec. 31, 1917 -----	38	45
Admitted during 1918 -----	96	328
	134	373
Committed men sentenced since ----- (less)	89	(plus) 89
	45	462
Discharged during 1918 -----	32	357
Prisoners in Gaol, Dec. 31, 1918 -----	13	105
Total number of prisoners, Dec. 31 -----		118
Served previous sentence at Provincial Gaol -----		47

DISCHARGES.

Discharged by expiry of sentence -----	217
Fine paid -----	25
Paroled -----	31
Deported -----	6
Paroled for military service -----	3
Order of Court -----	11
Order of Attorney General -----	1
Handed over to Alberta Provincial Police -----	1
Transferred to Edmonton Penitentiary -----	2
Transferred to Fort Saskatchewan Jail -----	1
Handed over to military escort -----	36
Transferred to Ponoka Asylum -----	11
Released on bail -----	2
Died -----	2
Executed by law -----	1
Escaped -----	2
Escaped and recaptured -----	2
Released, case dismissed, etc. -----	32
Total -----	389

, AGE OF PRISONERS.

Under twenty years	49
Over twenty and up to thirty years	191
Over thirty and up to forty years	105
Over forty and up to fifty years	56
Over fifty and up to sixty years	18
Over sixty and up to seventy years	5
Total	424

NATIONALITY.

Place of Birth.

United States of America	120
Canada	108
Austria	53
England	31
Russia	28
Scotland	13
Germany	12
China	8
Ireland	7
Denmark	7
Finland	6
Roumania	6
Italy	6
Holland	3
South America	3
India	2
Turkey	2
Australia	2
Greece	2
Other Countries	5
Total	424

CIVIL STATE.

Single	294
Married	118
Widower	12
Total	424

EDUCATION.

Can read and write English	379
Cannot read nor write English	40
Can read and write other than English	5
Total	424

RELIGION.

Roman Catholic	158
Presbyterian	60
Methodist	47
Lutheran	36
Church of England	35
Baptist	16
Greek Catholic	13
Chinese	8
Mormon	6
Hebrew	5
Seventh Day Adventist	5

Follower of Christ	5
Mohamedan	5
Salvation Army	2
Christian Church	2
Christadelphian	1
Theosophist	1
Dutch Reformed Church	1
International Bible Students	1
None	20
Total	424

SOCIAL HABITS.

Total Abstainers	163
Temperate	142
Intemperate	119
Total	424

OCCUPATION PREVIOUS TO CONVICTION

Farm Labourer	110	Shepherd	1
Farmer	66	Missionary	1
Labourer	62	Cigar Maker	1
Miner	57	Printer	1
Cook	14	Rooming House Keeper	1
Fireman	10	Chauffeur	1
Painter	8	Hotel Clerk	1
Clerk	8	Farm Manager	1
Machinist	8	Insurance Agent	1
Lumberjack	7	Telegraph Operator	1
Carpenter	7	Harness Maker	1
Waiter	7	Baker	1
Brakeman	5	Plumber	1
Teamster	5	Stationary Engineer	1
Blacksmith	4	Barber	1
Engineer	3	Engineer's Labourer	1
Butcher	3	Restaurant Keeper	1
Tailor	3	Cowboy	1
Showman	2	Sailor	1
Railway Switchman	2	Laundryman	1
Salesman	2	Land Agent	1
Porter	2	Stonemason	1
Gardener	2	Storekeeper	1
Steam Engineer	2		
School Teacher	2	Total	424

SENTENCES.

Under thirty days	19
Thirty days	81
Thirty days to under two months	31
Two months	31
Over two months to three months	55
Over three months to four months	11
Over four months to six months	33
Over six months to nine months	1
Nine months to under one year	2
One year	20
Over one year to eighteen months	3
Over 18 months to under two years	3
Two years less one day	49
Remanded	79
Committed for trial	5
Detained till end of war	1
Total	424

CRIMES.

Crimes against Religion and Morals.

Vagrancy	28
Carnal knowledge of girl under 14 years of age	4
Keeping bawdy house	4
Having immoral picture in possession	1
Committing incest with sister	1
Total	38

Crimes against the Person.

Murder	2
Attempt to commit Murder	6
Assault causing bodily harm	12
Indecent Assault	3
Assault	9
Rape	1
Attempted Rape	2
Attempt to commit Suicide	2
Stealing from the person	3
Robbery with violence	6
Intimidation of Person	1
Indecently assaulting girl under 14 years	4
Taking away another man's wife	1
Administering drugs to procure miscarriage	1
Assaulting Wife	3
Total	56

Crimes against Property.

Cattle Stealing	2
Horse Stealing	4
Theft	56
Receiving Stolen Property	8
False Pretences	14
Forgery	8
Fraudently obtaining Board and Lodging	1
Burglary	1
Theft of Motor Car	5
Theft from C. P. R. Cars	2
Theft of Cheque	1
Stealing Sheep	3
Housebreaking and Theft	6
Theft of Flax	1
Theft of Wheat	11
Shopbreaking	1
Stealing Oats	1
Arson	4
Total	129

Crimes against Public Order, Law and Justice.

Using Seditious Words	3
Using Insulting Language	1
Desertion from Military Service	1
Breach of Military Service Act, Disobeying Military Command	23
Breach of Military Duty and Discipline	2
Breaking Jail	2
Obstructing Peace Officer	1
Assaulting Peace Officer	2
Unlawfully having Firearms in possession	3
Having prohibited Newspaper in possession	1
Breach of Peace	4
Breach of Order in Council for Alien Enemies	18
Breach of Order in Council for Idleness	31
Perjury	2
Breach of Order in Council for Prisoner of War	1
Assisting Prisoner to escape from lawful custody	2
Total	97

DEPARTMENT OF PUBLIC WORKS

Crimes against any other Act.

Breach of Indian Act -----	7
Breach of Opium and Drug Act -----	3
Neglecting to provide for Children -----	1
Breach of Immigration Act -----	5
Breach of Military Service Act -----	9
Breach of Game Act -----	2
Breach of Inland Revenue Act -----	3
Breach of Order in Council, Not Having Birth Certificate on Person -----	27
Breach of National Registration Order -----	1
Breach of Food Board Order -----	1
Failure to notify change of Address to Military Registrar--	1
Breach of Shares Act -----	1
Total -----	61
Breach of Liquor Act -----	32
Bringing Liquor into Canada -----	1
Insane -----	10

SUMMARY OF EXPENDITURE FOR YEAR ENDING
DECEMBER 31st, 1918.

Salaries -----	\$ 14,430.52
Provisions, etc. -----	2,299.05
Butter -----	454.90
Eggs -----	169.00
Fish -----	420.52
Flour and oatmeal -----	3,345.70
Clothing -----	2,020.42
Uniforms -----	682.00
Boots and shoes -----	845.77
Farm and garden -----	6,320.07
Drugs and medicines (including Hospital Fees of \$279.00) -----	479.40
Laundry and cleaning -----	707.29
Office expenses -----	385.59

Miscellaneous.

Transportation of discharged prisoners --\$	700.00
Automobile -----	2,192.14
Prisoners' bedding -----	92.99
Prisoners' lavatory accommodation -----	307.25
Prisoners' mess dishes -----	110.25
Kitchen equipment -----	37.24
Library -----	39.95
Officers' rooms -----	115.55
Officers' mess dishes -----	34.75
Road camp -----	47.07
Sundries -----	78.05
	3,755.24

Power Plant.

Labour -----	\$ 3,725.00
Freight charges -----	21.18
General expenses -----	5.15
Oil -----	175.49
Domestic coal -----	869.90
Steam coal -----	6,033.67
Electric light, power and telephone -----	127.81
Water and sewers -----	94.97
Plant, supplies and repairs -----	543.70
	11,596.87
	\$47,912.34

SUMMARY OF STOCK ON HAND, DECEMBER 31st, 1918.

Groceries -----	\$ 838.36	
Flour and oatmeal -----	141.04	
Provisions, etc. -----	71.75	
		\$ 1,051.15
Boots and shoes -----		845.25
Laundry and cleaning -----		514.39
Clothing, etc. -----		891.30
Drugs and medicines -----		50.00

Farm and Garden.

Cattle -----	\$ 4,135.00	
Pigs -----	2,400.00	
Horses -----	3,525.00	
Poultry -----	140.50	
Grain, etc. -----	8,604.25	
Farm Produce -----	7,247.50	
Implements -----	3,190.20	
Tools -----	206.85	
Harness -----	489.60	
Binder twine -----	120.25	
		30,059.15

Miscellaneous.

Automobile -----	\$ 1,562.93	
Prisoners' lavatory -----	9.45	
Officers' mess -----	16.62	
		1,589.00

Power Plant.

Oils -----	\$ 53.82	
Chloride of lime and alum -----	8.17	
Coal, steam and domestic -----	1,005.15	
Plant, boiler tubes -----	404.65	
		1,471.79
Totals -----		\$ 36,472.03

STOCK ON HAND, DECEMBER 31st, 1918.

Groceries.

4 bottles Almond Essence ----\$.68	2 tins Parsley -----	\$.20
36 tins Allspice -----	2.10	195 cans Peas -----	28.03
1 case Green Apples -----	2.40	26 lbs. Pea Flour -----	1.04
71 lbs. Evaporated Apples ---	17.75	71 lbs. Pepper -----	24.14
21 lbs. Apricots, dried -----	3.15	2 tins Pepper, white -----	.20
25 lbs. Baking Powder -----	6.25	45 lbs. Peaches, evaporated ---	7.43
25 lbs. Baking Soda -----	1.88	3 tins Pickling Spice -----	.30
392 lbs. Pot Barley -----	23.52	335 lbs. Prunes -----	46.06
220 lbs. White Beans -----	26.40	7 cans Evaporated Milk -----	.77
87 lbs. Soda Biscuits -----	12.18	110 lbs. Raisins -----	14.03
23 tins Cayenne Pepper -----	1.72	20 lbs. Raisins, seedless -----	3.40
32 tins Cassia -----	2.27	270 lbs. Rice -----	27.00
27 lbs. Cheese -----	7.02	30 tins Sage -----	2.05
37 tins Cloves -----	3.08	775 lbs. Salt, coarse -----	14.53
3½ lbs. Cocoanut -----	1.51	99 bags Salt, table -----	11.14
202 lbs. Coffee -----	76.76	72 cans Salmon -----	15.98
190 cans Corn -----	38.79	33 tins Savory -----	2.75
28 lbs. Corn Starch -----	3.78	1 bottle Smokine -----	.50
158 lbs. Currants -----	42.66	532 lbs. Sugar, granulated ---	57.83
4 bottles Curry Powder -----	.60	205 lbs. Sugar, lump -----	24.95
34 lbs. Figs, cooking -----	3.40	120 lbs. Sugar, yellow -----	12.56
42 tins Ginger -----	2.98	768 lbs. Syrup -----	47.92
3 pkts. Hops -----	.36	40 lbs. Syrup, corn -----	4.10
9 pails Raspberry Jam -----	7.04	26 lbs. Tapioca -----	4.42
7 pails Strawberry Jam -----	5.60	326 lbs. Tea, black -----	110.84
101 Jelly Powders -----	8.42	115 cans Tomatoes -----	25.16
2 bottles Lemon Extract -----	2.00	3 gals. Tomato Catsup -----	2.40
3 pails Marmalade -----	2.25	1 tin Tumeric -----	.10
27 tins Mace -----	2.48	2 bottles Vanilla Extract -----	2.00
25 lbs. Macaroni -----	2.88	47 qts. Vinegar -----	6.46
1 bottle Mapleine -----	.25	1 gal. Worcester Sauce -----	.90
13 lbs. Mustard -----	5.20	73 Yeast Cakes -----	3.35
24 tins Nutmeg -----	1.35	35 boxes Matches -----	7.11
500 lbs. Onions -----	10.00	Total -----	\$838.36

Flour and Oatmeal.

720 lbs. War Flour -----	\$ 37.80
343 lbs. Rolled Oats -----	20.58
500 lbs. Corn Flour -----	27.50
527 lbs. Bran -----	7.91
900 lbs. Barley Flour -----	47.25
Total -----	\$ 141.04

Provisions, etc.

107 lbs. Beef -----	\$ 12.84
94 lbs. Pork -----	11.28
78½ lbs. Pickling Pork -----	10.99
8 lbs. Bacon (home cured) -----	1.12
62 lbs. Butter -----	28.52
15 dozen Eggs -----	7.00
Total -----	\$ 71.75

Boots and Shoes.

11 gallons Dubbin -----	\$ 30.25
22 pairs Rubbers -----	59.40
141 pairs Shoes -----	578.10
142 pairs Slippers -----	177.50
Total -----	\$ 845.25

Laundry and Cleaning.

46 Bathbrick -----	\$ 3.26	544 lbs. Soap Chips -----	\$ 68.00
5 lbs. Blue -----	1.25	843 cakes Fannel Soap -----	51.84
54 cakes Bon Ami -----	6.08	1516 bars Royal Crown Soap --	64.22
10 gals. Disinfectant -----	50.00	26 lbs. Starch -----	3.64
11 Galvanized Pails -----	13.75	1361 rolls T. Paper -----	71.45
310 cans of Dutch Cleanser --	25.83	11 Scrub Brushes -----	2.48
341 lbs. Sal Soda -----	11.94	9 Mopsticks -----	1.88
53 boxes Flypapers -----	24.38	105 Brooms -----	72.19
132 cans Lye -----	19.25	7 qts. Coal Oil -----	.79
674 bars Castille Soap -----	21.91		
3 cans Metal Polish -----	.25	Total -----	\$514.39

Clothing, etc.

44 pairs Blankets (prisoners') -----	\$ 123.20
18 Braces -----	8.10
11 Summer Caps -----	2.97
70 Winter Caps -----	105.00
12 pairs Drawers -----	15.00
36 Handkerchiefs -----	4.50
35 pairs Mitts -----	48.13
153 Overalls -----	350.63
56 Overall Jackets -----	130.67
8 Pillows (prisoners') -----	7.60
11 Sheets (guards') -----	19.25
12 pairs Socks -----	3.00
24 Topshirts -----	32.00
33 Undershirts -----	41.25
Total -----	/\$ 891.30

MISCELLANEOUS.

55 gallons Gasoline -----	\$ 22.55
2 gallons Polarine -----	
23 gallons Mobiloil -----	39.96
1 Dodge Touring Car -----	1,400.00
1 Ford Truck -----	100.00
Total -----	\$ 1,562.93

63 Soap Dishes -----	\$ 9.45
2 Cruets -----	11.00
Knife Polish -----	.25
6 Dessert Spoons -----	1.37
1 dozen Table Spoons -----	3.50
6 Tea Spoons -----	.50
Total -----	\$ 16.62

CATTLE.

9 Milking Cows -----	\$ 630.00
23 Breeding Cows -----	1,495.00
9 Steers -----	630.00
14 One-year-old Steers -----	490.00
14 One-year-old Heifers -----	490.00
15 Calves -----	300.00
1 Bull, Red Shorthorn -----	100.00
Total -----	\$ 4,135.00

PIGS.

120 Summer Pigs -----	\$ 1,800.00
20 Sows -----	600.00
Total -----	\$ 2,400.00

DEPARTMENT OF PUBLIC WORKS

HORSES.

8 Teams	-----	\$ 2,650.00
1 Mare	-----	350.00
2 Saddle Horses	-----	200.00
3 Colts	-----	325.00
Total	-----	\$ 3,525.00

POULTRY.

62 Hens	-----	\$ 46.50
24 Young Chicks	-----	6.00
31 Ducks	-----	31.00
19 Turkeys	-----	57.00
Total	-----	\$ 140.50

GRAIN.

500 bushels Oats	-----	\$ 500.00
200 bushels Barley	-----	200.00
500 bushels Marquis Wheat	-----	1,021.25
350 bushels Peas	-----	700.00
1000 bushels Feed Corn	-----	1,640.00
80 tons Green Feed	-----	1,600.00
5 tons Timothy and Clover Hay	-----	125.00
55 tons Alfalfa and Timothy Hay	-----	1,650.00
32 tons Timothy and Alfalfa Hay	-----	960.00
400 lbs. Grimm Alfalfa Seed	-----	208.00
Total	-----	\$ 8,604.25

FARM PRODUCE.

7666 2-3 bushels Potatoes	-----	\$ 5,750.00
1233 1-3 bushels Turnips	-----	555.00
250 bushels Garden Beets	-----	225.00
533 1-3 bushels Carrots	-----	480.00
50 bushels Parsnips	-----	45.00
60 bushels Onions	-----	52.50
½ ton Cabbage	-----	10.00
866 2-3 bushels Mangolds	-----	130.00
Total	-----	\$ 7,247.50

HARNESS.

10 sets Harness	-----	\$ 506.00
1 set Harness	-----	31.20
3 Riding Saddles	-----	104.00
3 Riding Bridles	-----	14.80
2 sets Single Driving Harness	-----	40.00
4 spare Collars	-----	18.00
1 set Cart Harness	-----	29.00
1 set Plow Harness	-----	10.00
6 Curry Combs	-----	3.00
6 Brushes	-----	3.00
6 Sweat Pads	-----	6.00
Total	-----	\$ 765.00
Less depreciation	-----	275.40
		\$ 489.60

TOOLS.

20 Hoes	-----	\$ 12.00
11 Spades	-----	15.40
9 Round Shovels	-----	6.30
39 Round Shovels, long	-----	35.10
10 Scoop Shovels	-----	9.00
9 Picks	-----	8.10
7 Manure Forks	-----	7.70
10 Hay Forks	-----	9.00

10 Straw Forks	\$ 12.00
3 Pinch Bars	3.75
6 Ice Saws	30.00
5 Ice Tongs	7.50
4 Scythes	5.60
2 Hay Knives	2.50
2 Axes	2.00
6 Post Hole Diggers	9.00
4 Post Hole Augers	3.60
2 Potato Shovels	2.50
1 pair Horse Clippers	2.50
1 Sticking Knife	.50
1 Sprinkler	.90
2 Branding Irons	4.50
1 Meat Saw	2.50
1 Butchers' Steel	2.25
1 Cleaver	4.50
6 Grass Hooks	2.00
6 Axe Handles	1.50
2 Hand Saws	4.00
1 Cross Cut Saw	4.50
1 Spirit Level	1.00
2 Hand Hammers	1.50
5 Potato Forks	6.25
8 potato Riddles	4.00
2 Long Augers	1.00
4 Garden Rakes	2.40
1 Square	1.00
2 Trowels	1.00
1 Sledge Hammer	1.00
Total	\$ 229.85
Less depreciation	23.00
	\$ 206.85

IMPLEMENTS.

1 Seed Drill	\$ 140.85	Pole Trees for Hitch	\$ 2.70
2 Massey Harris Binders	291.60	1 Lawn Sprinkler and hose	5.67
1 Double Mould Board Plow	47.48	50 ft. Hose and Nozzle	7.52
2 Walking Plows	41.40	50 ft. Hose and Sprinkler	8.10
2 Sulky Plows	143.87	8 Handles for Hole Digger	1.80
2 5-ft. Mowers	104.85	2 Cultivators	18.00
1 10-ft. McCormick Rake	31.50	1 16-16 Disc Harrow	51.75
2 Harrows	38.70	100 ft. 1/2 Wire Rope	8.95
1 Democrat	121.50	1 Swinging Hay Stacker	82.80
1 Single Buggy	117.00	1 4 Wheel Push Rake	43.20
5 Wagons	459.00	1 16 in. Deere Sulky Breaker	80.50
2 Sleighs	69.30	1 John Deere Potato Sprayer	59.40
1 Packer	129.60	1 Root Pulper	23.00
1 Land Roller	51.30	1 16-16 Discer	74.00
1 Disc Harrow	54.00	1 6 ft. Horse Lawn Mower	200.00
2 Eureka Planters	23.40	1 Kentucky Press Drill	173.00
1 Scuffler	9.90	1 3-Section Drag Harrow	16.00
1 Deere Cultivator	13.50	2 Scufflers	21.00
1 Dung Cart	48.60	1 Farm Level	27.62
1 Barrel and Truck	18.00	2 125-bush. Grain Tanks	130.00
1 Lawn Mower	16.20	1 Aspinwall Potato Planter	20.00
1 Fanning Mill	31.50	1 Mounted Grindstone	6.10
1 Water Tank	24.00	1 Emerson Engine Gang	
1 Truck for same	37.80	Plow	229.00
3 Lights for frames	21.60	1 Dowden Potato Digger	195.00
3 Wire Stretchers	13.73		
1 Splicer	.23		
24 Wheelbarrows	108.50		\$3,803.92
2 4-Horse Doubletrees	4.50	Less depreciation	613.72
1 Evener bar for 4-H. evener	3.60	Total	\$3,190.20
1 6-Horse Evener	1.80	650 lbs. Binder Twine	120.25

DEPARTMENT OF PUBLIC WORKS

POWER PLANT.

36 gallons Cylinder Oil -----	\$ 38.52
15 gallons Crank Case Oil -----	12.50
5 gallons Dynamo Oil -----	3.00
66 lbs. Chloride of Lime -----	7.92
2 lbs. Powdered Alum -----	.25
170 tons Hillcrest Coal -----	989.40
3 tons Galt Lump Coal -----	15.75
75 Boiler Tubes -----	404.65
Total -----	\$ 1,471.79

FARM PRODUCE SUPPLIED TO THE GAOL DURING 1918.

Beef, 15,907 $\frac{1}{4}$ lbs. -----	\$ 1,908.87
Pork, 3,099 $\frac{3}{4}$ lbs. -----	371.97
Pickled Pork, 51 lbs. -----	7.14
Bacon, 19 $\frac{1}{2}$ lbs. -----	2.76
Milk, 7,661 $\frac{1}{2}$ quarts -----	383.09
New Laid Eggs, 298 2-3 dozens -----	117.36
Potatoes, 40,207 lbs. -----	402.07
Turnips, 7,909 lbs. -----	79.09
Carrots, 5,947 lbs. -----	59.47
Other Vegetables, 7,995 lbs. -----	79.95
Onions, 131 lbs. -----	2.62
Pea Flour, 878 $\frac{3}{4}$ lbs. -----	35.15
Total -----	\$ 3,449.54

SOURCES OF REVENUE FOR YEAR ENDING DECEMBER 31st, 1918.

Sale of Marquis Wheat -----	\$ 10,736.06
Sale of Hogs -----	6,844.17
Sale of Hides -----	248.40
Sale of Seed Wheat -----	50.63
Sale of Seed Peas -----	13.50
Sale of Eggs for Setting -----	2.00
Sale of Cockerel -----	1.00
Hire of Teams to Road Department -----	356.00
Cutting Ice for Farmers -----	85.00
Use of Gaol Siding -----	90.00
Rent of Farm House -----	60.00
Board -----	.75
Sale of Broom Corn -----	120.00
Sale of Gasoline -----	3.75
Sale of Auto Top -----	5.00
Sale of Shock Absorber -----	12.00
Sales to Road Camp -----	179.90
Sales to Resident Families -----	1,195.04

Power Plant.

Sale of Electric Light and Power -----	168.96
Water supplied to Experimental Farm -----	225.45
Material shipped to Provincial Institutions -----	415.00
	809.41
Total -----	\$ 20,812.61

FARM PRODUCE SOLD DURING 1918.

Wheat—5256 bushels, 20 lbs. -----	\$ 10,736.06
Hogs—178 head, 37,870 lbs. -----	\$6,764.17
6 Sucking Pigs -----	30.00
1 Berkshire Boar -----	50.00
	6,844.17
Hides—33 Hides, 2,157 lbs. -----	248.40
Seed Wheat—22 $\frac{1}{2}$ bushels -----	50.63

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Seed Peas—4½ bushels -----	\$	13.50
Eggs—1 Setting Turkey Eggs -----	\$1.00	
1 Setting Duck Eggs -----	1.00	
Poultry—1 Cockrel -----		2.00
Hire of Teams to Road Dept.—89 days at \$4.00 per day -----		1.00
		356.00
		<hr/>
		\$18,251.76

Sales to Employees.

Beef—2,133½ lbs. -----	\$	210.70
Pork—1,055¾ lbs. -----		102.12
Pickled Pork—100½ lbs. -----		5.96
Bacon—8¾ lbs. -----		.90
New Laid Eggs—101 1-3 dozen -----		18.61
Milk—1,259½ quarts -----		125.95
Potatoes—966 lbs. -----		9.66
Turnips—140 lbs. -----		1.40
Onions—25 lbs. -----		.50
Other Vegetables—97 lbs. -----		.97
Total -----	\$	<hr/> 476.77

Supplied to Road Camp.

155 lbs. Beef -----	\$18.60	
575 lbs. Potatoes -----	5.75	
50 lbs. Carrots -----	.50	
25 lbs. Parsnips -----	.25	
50 lbs. Turnips -----	.50	
20 lbs. Onions -----	.40	
	<hr/>	\$ 26.00
Grand Total -----	\$	<hr/> 18,754.53

VALUE OF CROPS GROWN DURING 1918.

5799 bushels 20 lbs. Marquis Wheat -----	\$	11,845.13
1452 bushels Oats -----		1,452.00
408 bushels Peas -----		816.00
685 bushels Barley -----		685.00
8183 1-3 bushels Potatoes -----		6,137.50
80 bushels Onions -----		70.00
66 2-3 bushels Parsnips -----		60.00
766 2-3 bushels Carrots -----		690.00
283 1-3 bushels Table Beets -----		255.00
1300 bushels Mangolds -----		195.00
1333 1-3 bushels Swede Turnips -----		600.00
2½ tons Cabbage -----		50.00
107 tons Green Feed -----		2,140.00
20 tons 900 lbs. Timothy and Clover Hay -----		511.25
101¼ tons Alfalfa and Timothy Hay -----		3,037.50
		<hr/>
	\$	28,544.38
35 tons Timothy Hay harvested by Gaol on shares -----		1,050.00
Total -----	\$	<hr/> 29,594.38

PARTICULARS OF CROPS GROWN DURING 1918

Classification	Yield	Number of Acres	Yield per Acre
Alfalfa and Timothy Hay -----	1011¼ tons	25 acres	4 tons 100 lbs.
Timothy and Clover Hay -----	20 tons 900 lbs.	22 "	1860 lbs.
Greenfeed -----	107 tons	194.8 "	1100 lbs.
Swede Turnips -----	1333 1-3 bushels.	4.54 "	293 bush. 40 lbs.
Mangolds -----	1300 bushels	9.8 "	132 bush. 40 lbs.
Table Beets -----	283 1-3 bushels	2.19 "	129 bush. 20 lbs.
Carrots -----	766 2-3 bushels	2.02 "	379 bush. 20 lbs.
Parsnips -----	66 2-3 bushels	1.76 "	38 bushels
Onions -----	80 bushels	1.54 "	52 bushels
Potatoes -----	8183 1-3 bushels	48.35 "	169 bush. 20 lbs.
Barley -----	685 bushels	31.7 "	21 bush. 29 lbs.
Wheat -----	5799 1-3 bushels	251.9 "	23 bush. 1 lbs.
Oats -----	1452 bushels	38.45 "	37 bush. 26 lbs.
Peas -----	408 bushels	10.44 "	39 bush. 5 lbs.

PER CAPITA COST (AVERAGE MONTHLY POPULATION 100.574) FOR THE YEAR ENDING DEC. 31, 1918.

Classification	Stock on hand, Dec. 31, 1917	Expenditure	Prison Products used	Total	Less Stock on hand Dec. 31, 1918	Net cost
Salaries -----	-----	\$14,430.52	-----	\$14,430.52	-----	\$14,430.52
Subsistence (Groceries, Meats, Butter, Eggs, Flour, Oatmeal, etc.) -----	\$ 1,295.60	6,689.17	-----	7,984.77	1,051.15	6,933.62
Clothing, including uniforms -----	730.58	2,702.42	-----	3,433.00	891.30	2,541.70
Boots and Shoes -----	765.45	845.77	-----	1,611.22	845.25	765.97
Farm and Garden -----	28,121.98	6,320.07	\$ 3,449.54	37,891.59	30,059.15	7,832.44
Drugs and Medicines -----	50.00	479.40	-----	529.40	50.00	479.40
Laundry and Cleaning -----	404.45	707.29	-----	1,111.74	514.39	597.35
Office Expenses -----	-----	385.59	-----	385.59	-----	385.59
Miscellaneous -----	385.53	3,755.24	-----	4,140.77	1,589.00	2,551.77
<i>Power Plant.</i>						
Labour -----	-----	3,725.00	-----	3,725.00	-----	3,725.00
Oil -----	25.00	175.49	-----	200.49	53.82	146.67
Domestic Coal -----	9.50	869.90	-----	879.40	15.75	863.65
Steam Coal -----	672.48	6,033.67	-----	6,706.15	989.40	5,716.75
Plant repairs and renewals -----	404.65	792.81	-----	1,197.46	412.82	784.64
Totals-----	\$32,865.22	\$47,912.34	\$ 3,449.54	\$84,227.10	\$36,472.03	\$47,755.07

Net Cost -----	\$47,755.07
Less Revenue -----	20,812.61
Less Farm Recoveries -----	26,942.46
Net Cost -----	\$23,492.92
Yearly Net Cost per Capita-----	\$233.59
Cost per Capita per diem -----	64 cents.

FORT SASKATCHEWAN GAOL

FORT SASKATCHEWAN, January 10, 1919.

THE HON. A. J. McLEAN,
Minister of Public Works,
Edmonton, Alberta.

SIR,—I have the honour to submit herewith, the Annual Report of the Fort Saskatchewan Gaol for the year ending December 31, 1918, together with statistics of the gaol population, and the financial report. The daily average population for the past year has been 101.8, an increase on the year 1917 of 22.45, due in part to the transferring of the women prisoners from Macleod to this place.

I greatly regret to have to report the death of one prisoner from the "Spanish Influenza," but if we take into consideration the fact that we had over fifty prisoners down with this disease, we have cause to be thankful that our loss was not larger.

We had six escapes during the year, but I am pleased to say that through the good work of the Provincial Police four of these were re-captured and returned.

Our farming operations for the year were fairly successful, but the heavy frost which struck us in July cut down our potato and wheat crop more than seventy per cent.; but our hay, oat, barley, and vegetable crops were fair, and our root cellars are full at the present time. On the South Farm, we broke twenty-five acres of new land, and cleared forty acres more in readiness for breaking in the Spring.

We were very successful with our hogs this year past, having sold over five thousand dollars' worth of pork, besides that which we consumed in the institution.

Our building operations consisted of a gaol for the women prisoners, at a cost for material of \$3,078.68, the work being done by prison labour, and the heating and plumbing by the boiler room staff. This building is very satisfactory and comfortable, excepting that the work rooms are too small, and I would strongly recommend that a larger room be built on this year.

We also built a steel and concrete coal-bunker, with a capacity of over three hundred tons, at a cost for material of \$1,470.89. This work was also done with prison labour.

You will note that we have again reduced our per capita cost per annum from \$115.63 in 1917 to \$77.83 in the past year, a decrease of 10 cents per capita per diem, this saving being due, of course, not to a decrease in the cost of subsistence and material, but to the increase in revenue, which was very nearly double that of last year.

In conclusion, I beg to thank you for your untiring interest in this institution, and the many courtesies extended to us by yourself

and the members of your staff. I also beg to thank the Provincial Police for their assistance and co-operation during the year, and my own staff for their prompt and faithful services rendered.

I have the honour to be, Sir,

Your obedient servant,

HARRY A. DRIGGS,
Warden.

PRISONERS ADMITTED AND DISCHARGED.

Month	Admitted		Discharged	
	Com.	Sent.	Com.	Sent.
January -----	12	18	11	19
February -----	15	25	13	21
March -----	24	25	27	23
April -----	19	14	16	30
May -----	15	14	13	9
June -----	14	21	8	19
July -----	26	14	15	14
August -----	14	26	23	20
September -----	12	25	22	23
October -----	10	20	10	19
November -----	9	7	5	17
December -----	18	17	10	20
Total -----	188	224	172	234

	Committed.	Sentenced.
Prisoners in Gaol December 31st, 1917-----	8	61
Admitted during 1918-----	188	224
	196	285
Discharged during 1918-----	172	234
	24	51
Prisoners in Gaol December 31st, 1918-----		

Discharges during year.

Time expired -----	196
Paid fine -----	11
Paroled -----	20
Transferred to Provincial Police -----	141
Transferred to Edmonton Penitentiary -----	2
Transferred to asylum -----	5
Released on bail -----	28
Escaped -----	2
Died -----	1
Total -----	406

Civil State.

Single -----	99
Married -----	88
Widower -----	37
Total -----	224

Habits.

Total abstainer -----	102
Temperate -----	62
Intemperate -----	60
Total -----	224

FEMALE PRISONERS ADMITTED AND DISCHARGED.

Month	Admitted		Discharged	
	Com.	Sent.	Com.	Sent.
June -----	0	17	0	1
July -----	2	4	1	7
August -----	3	3	3	3
September -----	1	3	0	6
October -----	1	5	3	4
November -----	0	3	0	0
December -----	1	4	0	2
Total -----	8	39	7	23
			Committed.	Sentenced.
Prisoners admitted during 1918 -----			8	39
Prisoners discharged during 1918 -----			7	23
Prisoners in gaol December 31st, 1918 -----			1	16

Civil State.

Single -----	5
Married -----	28
Widows -----	6
Total -----	39

Country of Birth of Prisoners.

Austria -----	44
United States of America -----	38
Canada -----	40
Russia -----	35
Germany -----	12
England -----	13
Norway -----	1
Denmark -----	1
Sweden -----	12
France -----	3
Ireland -----	1
China -----	9
Belgium -----	14
Scotland -----	1
Total -----	224

STOCK ON HAND DECEMBER 31, 1918.

Subsistence.

1920	pounds	Oatmeal at 5¾c. -----	\$ 110.40
32800	"	Flour at 5.4/10c. -----	1,771.20
187	"	Beef at 13c. -----	24.31
90	"	Beans at 12c. -----	10.80
22	"	Rice at 9½c. -----	2.09
39	"	Sugar, gran., at 11.1/10 -----	4.33
104	"	Sugar, yellow, at 10½c. -----	10.92
38	"	Tea at 38c. -----	10.64
71	"	Coffee at 30c. -----	21.30
7	"	Prunes at 14c. -----	.98
4	"	Currants at 24c. -----	.96
3	"	Baking Powder at 22c. -----	.66
10	"	Corn Starch at 14c. -----	1.40
7	"	Tomatoes at 20½c. -----	1.43½
25	"	Pork at 12c. -----	3.00
9	"	Barley at 8c. -----	.72
5	bottles	Catsup at 22½c. -----	1.12½
5	"	Extracts at 25c. -----	1.25
68	pounds	Salt Bacon at 26c. -----	7.28
1	"	Soda at 8c. -----	.08
8	"	Jam at 17½c. -----	1.44½
1290	"	Cornmeal at 5.6/10c. -----	72.24
6	"	Tapioca at 17½c. -----	1.05
13	"	Figs at 13c. -----	1.69
8	"	Marmalade at 20c. -----	1.60
2000	"	Oat Flour at 5¾c. -----	115.00
1200	"	Rye Flour at 5¾c. -----	66.00
1000	"	Barley Flour at 5¾c. -----	57.50
24½	"	Soda Biscuits at 14c. -----	3.43
21	cans	Milk Condensed at 22c. --	4.62
20	pounds	Wheat Granules at 4¼c. --	.85
1900	"	Bran at 1.6/10c. -----	30.40
Total -----			\$ 2,340.50½

Clothing.

278	yards	Gingham at 24c. -----	\$ 66.78
281¼	"	Flanelette at 33c. -----	92.81¼
842	"	Shirting at 27c. -----	227.34
350½	"	Flanelette at 26½c. -----	92.88¼
415	"	Flannel at 52½c. -----	217.87½
55	"	Lining at \$1.50 -----	82.50
125	"	Italian Cloth at 52½c. -----	65.62½
730½	"	Denim D 50 at 54c. -----	394.47
158¾	"	Denim D 45 at 51c. -----	80.96¼
50	"	Hair Cloth at 37½c. -----	18.75
108	"	Shirting Dread. at 27c. --	29.16
143½	"	Lining, Sleeve at 75c. -----	107.62½
12	lbs.	Fingering at \$2.80 -----	33.60
563¾	yards	Apron Gingham at 27½c. -----	155.03
7	"	Dress Goods at \$4.50 -----	31.50
350	"	Bed Ticking at 30c. -----	105.00
75	"	Pillow Cotton at 44c. -----	33.00
3	rolls	Tape at \$2.50 -----	7.50
402¾	yards	Blue Denim at 48½c. -----	195.33
27	"	Tabling at \$1.50 -----	40.50
11	doz.	Hose at \$3.75 -----	41.25
5	"	Hose at \$10.50 -----	52.50
1	gross	Bach. Buttons -----	4.80
2	boxes	Split Rings at 75c. -----	1.50
48	pr.	Socks at 23¾c. -----	11.40
60	"	Socks at 12½c. -----	7.50

Clothing—Continued.

15	pair	Socks German at \$1.00	15.00
12		Overalls at \$1.25	15.00
48		Smocks at \$1.25	70.00
7		Slickers at \$3.30	23.10
20		Braces at 50c.	10.00
12		Badges at \$1.40	16.80
36		Caps at 66 2/3c.	24.00
50		Caps at 20c.	10.00
53 3/4	yards	Duck at 20c.	10.75
50	"	Canvass at 20c.	10.00
308	"	Serge at \$5.25	231.00
63	"	Lining at 50c.	31.50
55 1/4	"	Coating at \$3.25	179.56
67 1/2	"	Coating at \$3.00	202.50
62	"	Suiting at \$2.00	124.00
10	"	Red Piping at \$7.00	70.00
60	"	Cambric at 25c.	15.00
23	"	Dowlas at 65c.	14.95
60	spools	Corticelli at 40c.	54.00
10	yards	Cotton W at 30c.	30.00
54	"	Cotton B at 5c.	2.70
7	"	Cotton W at 5c.	.35
4	rolls	Tape B at 20c.	.80
66	spools	Twist at 32c.	1.76
5	boxes	Thread at \$2.77	13.85
54		Undershirts at 75 1/2 c.	40.77
234		Drawers at 75 1/2 c.	176.67
24		Undershirts at \$1.12 1/2	26.60
24		Drawers at \$1.12 1/2	26.60
36		Undershirts at 79c.	28.44
60		Drawers at 79c.	47.40
42		Undershirts L at \$1.12 1/2	47.25
12		Drawers L at \$1.12 1/2	13.50
12		Overshirts at 75c.	9.00
13		Overcoats at \$18.00	234.00
10		Mackinaws at \$3.00	30.00
15		Blue Uniforms at \$27.00	405.00
24	pair	Mitts at \$1.63	59.12
52	"	Wool Mitts at 43c.	22.36
84		Pull overs at 69c.	57.96
84	pair	Gloves at \$1.31	110.04
77 3/8	yards	Serge at \$5.25	396.82 1/2
26 3/4	"	Melton at \$3.25	96.68 3/4
234 1/2	"	Denim, black, at 50c.	117.25
24	"	Denim, Khaki at 25c.	6.00
44 1/2	"	Lining at 75c.	33.37 1/2
40	"	Felt at \$1.10	44.00
39	"	Flannel at 32 1/2 c.	12.67 1/2
48	"	Shirting at 32 1/2 c.	15.60
50	"	Flanelette at 26 1/2 c.	13.25
5 1/2	"	Hair cloth at \$1.50	8.25
78	"	Canvass at 34 1/2 c.	15.60
16 1/4	"	Canvass, French, at 65c.	10.55 1/4
10	"	Stay Linen at 30c.	3.00
36	"	Silesia, black, at 25c.	9.00
12	rolls	Wadding at 30c. per doz.	.30
1 1/8	bolts	Red Piping at \$7.00	7.12
36	spools	Thread at 40c. per doz.	1.20
2	rolls	Tape at 20c.	.40
1	gross	Hooks and eyes at 75c.	.75
4	"	Buttons at \$3.60	14.40
3	spools	Twist at 32c.	.96
4	"	Corticelli at 40c.	1.60
12	"	Cotton at 5c.	.60
1/2	lb.	Rubber tissue at \$3.00	1.50
1/2	roll	Wrapping paper at \$5.00	2.50
6	3pc kit	Uniforms at \$37.50	225.00

Clothing—Continued.

4	pairs	Breeches at \$12.10	\$ 48.40
7	"	Pants at \$7.90	45.30
2		Tunics at \$16.50	37.00
272		Blankets, double at \$3.66	1,085.52
141		Blankets, single, at \$1.80	253.80
4		Blankets, hospital, at \$4.00	16.00
538		Sheets at 55c.	295.00
313		Pillow slips at 44c.	137.72
26	pairs	Socks at 23¾c.	6.17½
42	"	Socks at 12½c.	5.25
57		Overshirts at 75c.	42.75
29		Undershirts at 75½c.	21.89½
32		Drawers at 75½c.	24.16
9		Coats, sheepskin at \$5.00	45.00
32		Coats, check at \$2.00	64.00
82		Smocks at \$1.50	123.00
34		Smocks at \$1.25	43.50
35		Overalls at \$1.50	52.50
64		Overalls at \$1.25	80.00
51		Towels, guards, at 35c.	20.85
225		Towels, prisoners, at 25c.	56.25
40		Pullovers at 69c.	27.60
44	pairs	Wool mitts at 43c.	18.92
129		Caps at 66 2/3	86.00
53		Caps at 20c.	1.06
			<hr/> \$ 8,384.56¾

Boots and Shoes.

12	pairs	Overshoes at \$2.85	\$ 34.20
11	"	Felt Boots at \$2.85	31.35
15	"	Felt Boots, women's, at \$2.85	42.75
18	"	Boots, women's, at \$3.50	63.00
16	"	Boots, women's, at \$2.70	43.20
192	"	Boots, prisoners, at \$4.00	768.00
17	"	Boots, guards, at \$6.00	102.00
27	"	Felt Slippers at 65c.	17.55
19	"	Rubbers at \$2.45	46.55
6	"	Larrigans at \$1.00	6.00
1	gross	Laces at \$6.50	6.50
65	pairs	Boots, prisoners, at \$3.00	195.00
23	"	Rubbers at \$2.45	56.35
			<hr/> \$ 1,412.45

Farm and Garden.

2200	bushels	Barley at \$1.00	\$2,200.00
5000	"	Oats at 65c.	3,250.00
200	"	Wheat at \$2.00	400.00
30	Tons	Hay at \$30.00	900.00
30	"	Green Feed at \$16.00	480.00
75	"	Straw at \$2.00	150.00
3017	bushels	Potatoes at \$1.00	3,017.00
1643	"	Turnips at 60c.	985.80
2011	"	Carrots at 90c.	1,809.90
500	"	Mangels at 60c.	300.00
277	"	Beets at 90c.	249.30
115	"	Parsnips at \$1.20	138.00
			<hr/> \$ 13,880.00

Cattle.

8	Cows at \$90.00	\$720.00
3	Heifers at \$65.00	195.00
7	Steers at \$130.00	910.00
2	Cows at \$70.00	140.00
10	Calves at \$30.00	300.00
1	Cow at \$50.00	50.00
2	Cows at \$55.00	110.00
1	Steer at \$50.00	50.00
		<hr/> \$ 2,475.00

DEPARTMENT OF PUBLIC WORKS

Pigs.

7 Sows at \$20.00	-----	\$140.00	
14 Sows at \$30.00	-----	420.00	
1 Boar at \$20.00	-----	20.00	
1 Boar at \$30.00	-----	30.00	
15 Pigs at \$18.00	-----	270.00	
28 Pigs at \$2.00	-----	56.00	
14 Pigs at \$25.00	-----	350.00	
10 Pigs at \$6.00	-----	60.00	
	-----		\$ 1,346.00

Horses.

2 Teams at \$525.00	-----	\$1,050.00	
2 Teams at \$535.00	-----	1,070.00	
2 Saddle at \$80.00	-----	160.00	
1 Spare at \$160.00	-----	160.00	
	-----		\$ 2,440.00

Harness.

2 Sets heavy at \$15.00	-----	\$ 30.00	
1 Set medium at \$10.00	-----	10.00	
2 Sets extra heavy at \$68.50	-----	137.00	
1 Saddle at \$54.00	-----	54.00	
1 Saddle at \$40.00	-----	40.00	
1 Bridle at \$5.00	-----	5.00	
2 Collars at \$5.00	-----	10.00	
10 Collars at \$3.00	-----	30.00	
2 Ox harness at \$16.00	-----	32.00	
1 Ox hames at \$1.06	-----	1.06	
1 Cart harness at \$4.00	-----	4.00	
	-----		\$ 353.06

Implements.

1 Potatoe digger	-----	\$ 100.00	
1 Potatoe planter	-----	25.00	
Fencing wire	-----	406.38	
4 Harrow sections	-----	21.15	
Rakes and forks	-----	12.00	
Trees and shrubs	-----	60.00	
2 Shares and coulter	-----	13.00	
1 Feed grinder	-----	89.00	
1 Scales, platform	-----	103.00	
1 Scales, farmer	-----	45.00	
2 Scales, counter	-----	15.00	
2 Seeders	-----	29.00	
1 Disc harrow	-----	48.50	
2 Breaking plows	-----	57.00	
2 Cultivator shovels	-----	.80	
1 Buggy pole and evener	-----	11.00	
2 Mowers, hay	-----	120.50	
1 Mower, lawn	-----	15.90	
1 Hay rake	-----	40.00	
1 Hay knife	-----	4.00	
1 Slop cart	-----	10.00	
1 Water cart	-----	10.00	
1 Dump cart	-----	26.00	
3 Waggon, lumber	-----	110.00	
1 Waggon, Hamilton	-----	80.00	
2 Waggon, grain	-----	160.00	
1 Buggy	-----	60.00	
5 Bob-sleighs	-----	175.00	
1 Drag scraper	-----	9.00	
1 Disk drill	-----	135.00	
14 Axes at 73c.	-----	10.22	
20 Axe handles at 30c.	-----	6.00	
12 Mattocks at 50c.	-----	6.00	
24 Mattock handles	-----	7.68	
36 Shovels at 61c.	-----	15.96	

Implements—Continued.

2 Surcingles	-----	\$.58
2 Tea pots	-----	1.70
2 Tents	-----	84.50
3 Scythes at \$2.15	-----	6.45
1 Sprinkling can	-----	.90
1 Buck saw	-----	1.25
1 Square	-----	.98
3 Butcher steels at 90c.	-----	2.70
1 Soldering set	-----	1.50
10 Sweat pads at 75c.	-----	7.50
3 Chisel handles	-----	.60
1 Emerson gang plow	-----	90.00
2 Shares	-----	9.00
1 Land packer	-----	110.00
1 Hamilton gang plow	-----	105.00
1 Fanning mill	-----	47.00
2 Stump pullers	-----	67.00
1 Scuffler	-----	12.00
6 Horse blankets	-----	25.00
1 Buggy robe	-----	19.75
4 Fence pliers	-----	1.00
1 Automobile	-----	1,060.00
6 Stable brooms at \$1.20	-----	7.20
6 Body brushes	-----	3.00
1 Flag	-----	8.00
1 Ford tractor	-----	795.00
6 Handcuffs	-----	48.00
1 Scraper	-----	5.00
	-----	\$ 4,557.70

Miscellaneous.

3 Cook Stoves	-----	\$120.00
2 Filing Cabinets	-----	97.27
6 Pails	-----	7.20
11 Guns	-----	210.00
6 Belts and holsters	-----	9.00
2 Clocks	-----	92.50
1 Dater	-----	6.00
1 Stapler	-----	2.00
6 Sewing machines	-----	234.00
2 Step ladders	-----	2.00
1 Freezer	-----	5.25
3 Mirrors	-----	3.75
2 Clothes brushes	-----	1.75
1 Cross-cut saw	-----	2.75
2 Grind stones	-----	2.45
2 Bed pans	-----	4.00
	-----	\$ 799.92

Laundry and Cleaning.

10 Brooms, hair, at \$1.00	-----	\$ 10.00
6 Brooms, corn, at 90c.	-----	5.40
16 Tins lye at 12½c.	-----	1.94
8 Cases Soap, laundry, at \$6.25	-----	52.00
8 Cases, Soap, toilet, at \$5.60	-----	44.80
7 Bathbrick at 15c.	-----	1.05
12 Paint, gals., at \$1.00	-----	12.00
2/3 Case Matches at \$8.50	-----	5.66
3 Wash tubs at \$1.00	-----	3.00
5 Harness soap at 50c.	-----	2.50
2 Force cups rubber at \$1.00	-----	2.00
6 Dutch cleanser at 10c.	-----	.60
25 Creolin, gals. at \$2.00	-----	50.00
180 Toilet paper rolls at 5c.	-----	9.00
2 Gold Dust at 35c.	-----	.70
4 Washing blue at 10c.	-----	.40
2 Ice caps at \$1.50	-----	3.00
2 Hot water bottles at \$2.50	-----	5.00
6 Bon Ami at 15c.	-----	.90

Laundry and Cleaning—Continued.

2 Shaving soaps at 12½c. -----	\$.25
4 Shears at \$2.00 -----	8.00
6 Lamps at \$1.20 -----	7.20
6 Lanterns at \$1.00 -----	6.00
2 Stove polish at 10c. -----	.20
2 Hair clippers at \$4.00 -----	8.00
4 Razors at \$2.50 -----	10.00
2 Shavings brushes at 75c. -----	1.50
2 Hones at 25c. -----	.50
3 Strops at \$1.00 -----	3.00
2 Scissors at 65c. -----	1.30
1 Comb at 35c. -----	.35
1 Hair brush at 75c. -----	.75
	<hr/> \$ 257.00

REVENUE FOR 1918.

W. Wood, 2510 lbs. hogs at 18c. -----	\$ 451.80
Victoria Fruit Co., 710 bushels potatoes at 90c. -----	639.00
Hay, 27 ton 468 lbs. at \$15.00 -----	409.34
Wheat, 752 bushels at \$12.00 -----	1,505.40
Hogs, 7680 lbs. at \$18.05 per cwt. -----	} 3,774.01
Hogs, 7240 lbs. at \$17.25 per cwt. -----	
Hogs, 6955 lbs. at \$16.50 per cwt. -----	
Steers, 2700 lbs. at 12c. -----	324.00
Horse sold to F. Walker -----	130.00
Wood, 1 load -----	2.50
Boar service -----	2.00
Oats and chop, 7 bushels at 50c. -----	} 18.85
Oats and chop, 6½ bushels at 75c. -----	
Oats and chop, 6½ bushels at \$1.50 -----	
Green feed, 22 ton 570 lbs. at \$12.00 -----	266.34
Vegetables, 53,829 lbs. at 1½c. -----	807.43
Tile, 50 at 75c. -----	37.50
Meals, 26 at 18c. -----	4.70
W. Kelterborn, 60 lbs. beef hide at 12c. -----	7.20
Mrs. Smith, 2 bushels potatoes at \$1.00 -----	2.00
Provincial Hospital, 14,292 lbs. beets at \$25 per ton -----	53.75
S. Ludwick, 20 bushels potatoes at \$1.00 -----	20.00
S. Ludwick, 100 lbs. beets at 1½c. -----	1.50
S. Ludwick, 125 lbs chop at 3¼c -----	4.00
Atkinson Bros., 2,105 lbs. hogs at 16½c. -----	352.55
Wm. Wood, 2,365 lbs. hogs at 16½c. -----	396.13
E. Kelterborn, 68 lbs. beef hide at 12c. -----	8.15
J. B. Adamson, 2,000 lbs. green feed at \$12.00 per ton -----	12.00
R. M. Ray, 813 lbs. vegetables at 1c. -----	8.13
F. R. Rudd, 2 bushels oats at 72½c. -----	1.55
J. W. Adams, 205 lbs. chop at 2c. -----	4.10
E. Dennis, 150 lbs. chop at 2c. -----	3.00
B. Pollard, 2,375 lbs. green feed at \$12.00 per ton -----	14.25
T. Bullock, groceries -----	6.32
R. W. Abraham, 226 meals at 18c. -----	40.65
G. McCormick, 142 meals at 18c. -----	25.55
Provincial Hospital, 88 pairs overalls at \$24.00 per doz. -----	176.00
Provincial Hospital, 88 smocks at \$27.00 per doz. -----	198.00
Provincial Hospital, 19 uniforms at \$27.00 each -----	513.00
Provincial Police, 57 uniforms at \$37.50 kit of 3 pc. -----	2,168.40
	<hr/> \$11,718.10

COST OF MAINTENANCE AND ADMINISTRATION.
PROVINCIAL GAOL.

Fort Saskatchewan, 1918.

Expenditure during 1918.

Maintenance -----	\$ 16,006.37	
Administration -----	36,739.41	
		<u>\$52,745.78</u>

Add.

Stock on hand at as December 31st, 1917 -----	\$ 23,175.12	
Gaol Products used -----	1,552.57	
		<u>\$24,727.69</u>

Gross Expenditure -----	\$77,473.47
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Less.

Stock on hand as at December 31st, 1918 -----	\$ 38,346.19	
Revenue derived from the sale of produce, etc. -----	11,718.10	
Gaol Products used -----	1,552.57	
		<u>\$51,616.86</u>

Net Cost -----	\$25,856.61
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Yearly cost per capita -----	\$ 253.99
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Cost per capita per diem -----	\$.69.6
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FORT SASKATCHEWAN, January 23, 1919.

H. A. DRIGGS,

Warden, Provincial Gaol,

Fort Saskatchewan.

SIR,—I beg to draw your attention to the following in connection with work performed by your engineers at the Provincial Gaol during the year 1918.

I may say that during the year 1918 the coal cost an average of one dollar and twenty three cents per ton more than it cost in 1917. While this is true, we have, owing to improvements and changes to the equipment in the engine and boiler rooms, and to changes in the manner of operation of same, been able to operate during 1918 on 542 tons of coal less than we did in 1917.

Coal received during year -----	1,899 tons
Average cost of coal per ton -----	\$4.14

Work performed during the year.

Kilowatt hours produced -----	67,580
Water pumped, treated and filtered -----	7,735,450 gals.
Total hours of light service during year -----	5,590

Your obedient servant,

W. R. ABRAHAM,

Engineer in Charge.

HOSPITAL FOR RETURNED SOLDIERS

RED DEER, January 2, 1919.

THE HONORABLE A. J. McLEAN,
Minister of Public Works,
Edmonton.

SIR,—I have the honor to submit for your consideration the Annual Report for the year 1918, being the First Annual Report for the Hospital for Returned Soldiers, Red Deer. Included are also a number of statistical tables.

On the fourteenth day of March the Hospital was officially opened by yourself, there being thirty-five male patients in residence. At the close of the year the admissions totaled 111.

During the year, there were four probations and two deaths, leaving a total of 105 still resident in the hospital.

The general health of the patients and staff has been very satisfactory, excepting for the epidemic of Influenza, which affected approximately one-third of the staff and patients, but, fortunately, resulted in a mortality of only one patient.

Through the kindly assistance of the Department of Public Works, supplemented by the help of patients and staff, numerous incidental repairs and improvements have been added to the interior of the building, as well as the following without: (a) Airing court for patients; (b) root-house 16 feet by 110 feet; (c) two hundred and forty rods of fencing; (d) planting of three hundred and fifty evergreens; (e) garage and workshop; (f) power line; (g) pruning and cleaning in park coulee; (h) three acres of breaking; (i) terracing of the front embankment, and a considerable amount of boulevarding and grading.

The garden, in spite of the poor condition of the soil and the drouth extending well into the summer, proved to be the best in the vicinity. Details will be found under separate heading.

The future presents much necessary work, but no doubt this will be accomplished in due time.

The yearly cost per capita is \$340.08.

Average net cost per capita per diem, \$1.16.

In concluding, the staff wish to convey their sincere thanks to the various Departments for their support and assistance.

I have the honour to be, Sir,

Your obedient servant,

D. L. DICK, M.D.
Medical Superintendent.

PER CAPITA COST FOR THE YEAR ENDING DECEMBER 31st, 1918,
293 DAYS. AVERAGE NUMBER IN RESIDENCE,
PATIENTS 65; STAFF 15; TOTAL 80.

	Expendi- ture	Farm Products Supplied to Hospital	Total	Less Stock on Hand Dec. 31st, 1918	Net Cost
Subsistence -----	\$ 7,728.19	\$ 442.76	\$ 8,170.95	\$ 337.78	\$ 7,837.17
Clothing -----	1,370.28	-----	1,370.28	781.05	589.23
Water and ice -----	441.63	-----	441.63	-----	441.63
Drugs and medicines ---	199.27	-----	199.27	137.28	61.99
Laundry and cleaning ---	2,789.48	-----	2,789.48	1,513.66	1,275.82
Funerals and interments--	40.00	-----	40.00	-----	40.00
Newspapers, magazines --	19.00	-----	19.00	3.00	16.00
Miscellaneous -----	2,403.08	-----	2,403.08	921.26	1,481.82
Fuel, light and power ---	3,956.38	-----	3,956.38	125.02	3,831.36
Freight and transfer ---	211.18	-----	211.18	-----	211.18
Salaries -----	10,653.61	-----	10,653.61	-----	10,653.61
Farm -----	2,098.85	-----	2,098.85	159.55	1,939.30
Building supplies -----	568.28	-----	568.28	59.57	508.71
Totals -----	\$32,479.23	\$ 442.76	\$32,921.99	\$ 4,034.17	\$28,887.82

Net Cost -----	\$28,887.82
Less Farm Produce Sold -----	995.53
	-----\$27,892.29
Less Credit for Board supplied Workmen---	242.52
	-----\$27,649.77
Less Products supplied Hospital, from Farm--	442.76
	-----\$27,207.01

Yearly Net Cost per Capita -----	\$340.08
Cost per Capita per Diem -----	1.16

FARM

Farm Produce	Sold		Supplied to Hospital		On Hand		Total	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Beans	-----	-----	311	\$ 15.55	-----	-----	311	\$ 15.55
Beets	130	\$ 3.90	405	12.15	3,000	\$ 90.00	3,535	106.05
Cabbage	5,728	114.79	1,297	25.94	6,000	150.00	13,025	290.73
Carrots	3,901	78.02	1,403	28.06	15,240	152.40	20,544	258.48
Cauliflower	-----	-----	460	11.50	-----	-----	460	11.50
Lettuce	-----	-----	631	12.52	-----	-----	631	12.52
Onions	2,953	102.77	1,508	45.24	1,550	46.50	6,011	194.51
Parsnips	115	3.45	436	13.08	3,000	90.00	3,551	106.53
Peas	-----	-----	446	13.38	-----	-----	446	13.38
Pork	-----	-----	361	77.38	878	219.50	1,239	296.88
Potatoes	47,400	691.25	10,836	162.54	71,406	1,190.00	129,636	2,043.79
Radishes	-----	-----	141	5.64	-----	-----	141	5.64
Turnips	90	1.35	984	19.68	34,000	340.00	35,074	361.03
Green Feed	-----	-----	-----	-----	5,000	50.00	5,000	50.00
		\$ 995.53		\$ 442.76		\$ 2,328.40		\$ 3,766.69

FARM PRODUCTS SUPPLIED HOSPITAL.

Products	Pounds.	Amount.
Beans -----	311	\$ 15.55
Beets -----	403	12.15
Cabbage -----	1,297	25.94
Carrots -----	1,403	28.06
Cauliflower -----	460	11.50
Lettuce -----	631	12.62
Onions -----	1,508	45.24
Parsnips -----	436	13.08
Peas -----	446	13.38
Pork -----	361	77.38
Potatoes -----	10,836	162.54
Radishes -----	141	5.64
Turnips -----	984	19.68
		<hr/>
		\$ 442.76

TABLE SHOWING THE NUMBER OF ADMISSIONS, DISCHARGES AND DEATHS DURING 1918.

Month	Admissions			Discharges			Deaths		
	Soldiers	Civilians	Total	Soldiers	Civilians	Total	Soldiers	Civilians	Total
March -----	16	19	35	--	--	--	--	--	--
April -----	--	--	--	--	--	--	0	1	1
July -----	8	32	40	--	--	--	--	--	--
September -----	--	--	--	1	0	1	--	--	--
October -----	6	29	35	1	0	1	--	--	--
November -----	--	--	--	1	1	2	0	1	1
December -----	1	--	1	--	--	--	--	--	--
Total -----	31	80	111	3	1	4	0	2	2

TABLE SHOWING THE DEGREE OF EDUCATION OF THOSE ADMITTED DURING 1918.

Superior -----	16
Common School -----	65
Could read and write -----	24
None -----	6
Total -----	<hr/> 111

TABLE SHOWING NUMBER ALLOWED OUT ON PROBATION AND RESULTS IN 1918.

Discharged, improved -----	4
Returned to Hospital -----	0
Total -----	<hr/> 4

TABLE SHOWING THE NATIONALITY OF THOSE ADMITTED DURING 1918.

Austria	9
Canada	28
Japan	1
Denmark	1
England	22
Belgium	1
Finland	1
Hungary	1
Ireland	5
Italy	2
Norway	6
Russia	9
Scotland	3
Sweden	4
United States	18
Total	111

TABLE SHOWING THE CIVIL STATE OF PATIENTS ADMITTED DURING 1918.

Single	82
Married	25
Widowed	3
Divorced	1
Total	111

TABLE SHOWING THE RELIGIOUS DENOMINATION OF THOSE ADMITTED DURING 1918.

Anglican	23
Baptist	2
Greek Catholic	11
Seventh Day Adventist	1
Lutheran	11
Methodist	7
Presbyterian	14
Roman Catholic	38
Unknown	4
Total	111

RECORD OF DEATHS DURING 1918.

Reg. No.	Name	Age	Time in Hospital		Cause of Death.
			Mo'ths	Days	
764	Petranchuk, John ---	51	1	14	Coronary Embolism
992	Honos, Yelko -----	22	4	6	Influenza Pneumonia

TABLE SHOWING THE AGES OF THOSE ADMITTED DURING 1918.

From 15 to 20	-----	1
" 20 to 25	-----	17
" 25 to 30	-----	19
" 30 to 35	-----	24
" 35 to 40	-----	15
" 40 to 45	-----	14
" 45 to 50	-----	3
" 50 to 55	-----	7
" 55 to 60	-----	5
" 60 to 65	-----	0
" 65 to 70	-----	3
" 70 to 75	-----	2
" 75 to 80	-----	0
" 80 to 85	-----	1
" 85 to 90	-----	0
Total	-----	<hr/> 111

ACCOUNTANT'S BRANCH

EDMONTON, January 2, 1919.

L. C. CHARLESWORTH, ESQ.,

Deputy Minister of Public Works,

Edmonton, Alberta.

SIR,—As Accountant of the Department of Public Works, I have the honour to submit my report for the year ending December 31st, 1918.

At the outset, I would direct your attention to the fact that, although a comparison of the number of accounts dealt with in 1918 with that in the previous year would indicate that there had been a falling off in the detail work of the Branch, such is not the case. There has been a considerable increase, generally, and also in particular, owing to the Public Institutions having been transferred to the jurisdiction of the Department of Public Works.

The total number of vouchers passed to the Treasury Department for payment during the year was-----	14,723
and, the number of vouchers passed in connection with the Local Improvement Districts Trust Account "A" Funds totalled -----	1,370
giving a total for the year of -----	16,093

This total of 16,093 covered 21,517 accounts and 4,103 pay lists, which were examined and passed for payment by the branch during the year.

A system of accounting had to be devised to take care of the expenditures in connection with the public institutions. This was done, and is working satisfactorily.

The various ledgers, Vote, Roads, Bridges, Ferries and Public Buildings, Construction, Maintenance, and Administration have been duly balanced, and found to be in agreement with the records kept in the Audit Department.

The number of cheques issued from the branch during the year totalled to 5,003, as per details given below:

Drawn on General Revenue Suspense Account-----	422
Issued in connection with Local Improvement Districts, Trust Account "A" Funds -----	4581
Total -----	5003

The amount of moneys received from all sources and deposited with the Provincial Treasurer, was \$275,632.75, while the sum deposited in General Revenue Suspense Account totalled \$28,190.00. Of this latter amount there was transferred to General Revenue, or refunded, \$18,461.68, leaving a Cash Book balance of \$9,708.32, to be carried forward. The major portion of this balance consists of several large amounts, in respect of which a definite disposition was not to hand when the financial year closed.

A comparison of the total amount deposited in General Revenue during the year with that of the previous year, shows an increase of \$164,434.99. This large amount of additional revenue may be explained, in part, by the fees collected under The Mine Owners' Tax Act, \$131,291.73, amount collected for Coal Dealers' Permits, \$3,738.00, and General Revenue derived through the Public Institutions, from the sale of stock, and produce etc., \$39,000.00. Then also owing to the increase of fees collectible under The Boilers Act, the Steam Boilers Branch had a net increase of about \$5,000.00.

The revenue derived from the Surveys Branch, Subdivision Fees, Lease of Road Allowances, etc., shows a decrease.

No amounts were received through the Mines Branch, for the upkeep of the Mine Rescue Stations. Reimbursement of the whole amount of expenditure for 1918, in this connection some \$13,000.00, is to be made by the Workmen's Compensation Board.

The Accounting staff consisted, as in the year 1917, of the Accountant, Assistant Accountant, six clerks, and one messenger.

Respectfully submitted,

TOM. S. S. DAVIES,

Accountant.

CORRESPONDENCE BRANCH.

L. C. CHARLESWORTH, ESQ.,

Deputy Minister of Public Works,

Edmonton, Alta.

SIR,—I have the honor to submit herewith the annual report of the Correspondence Branch of the Public Works Department for the year ending December 31st, 1918.

Branch	Letters received	Letters sent	Postage	War Tax
Engineering ----	29,114	24,074	\$ 616.20	\$ 200.06
Surveys -----	11,861	13,518	279.50	79.97
Coal Mines ----	12,997	15,423	377.50	100.76
Steam Boilers --	5,605	7,500	373.82	55.92
	59,577	60,515	\$1,647.02	\$ 436.71

Cash Received.

Branch	Entries	Amount
Engineering and Architectural -----	358	\$ 64,839.71
Surveys -----	295	4,302.96
Coal Mines -----	2125	142,307.03
Steam Boilers -----	1510	27,200.56
	4288	\$238,650.26

Cash received and transferred to other departments-----	\$13,644.74
Registered letters sent -----	7107
Registered letters received -----	1990

New Files Made and Indexed.

Engineering Branch -----	570
Surveys Branch -----	1033
Coal Mines Branch -----	93
	1696

The following comparative statement shows a considerable increase of work over that of the previous year. This increase was especially marked in the Steam Boiler and Coal Mine Branches, the latter showing an increase of almost one hundred per cent. over that of 1917.

	1917	1918
Number of letters received -----	58,693	59,577
Number of letters sent -----	52,474	60,515
Total number of communications -----	11,167	120,092
Number of items of cash received -----	1,892	4,288
Amount of Cash received -----	\$62,466.05	\$238,650.26
Number of registered letters received -----	1,100	1,990
Number of registered letters sent -----	6,306	7,107
Amount of postage used -----	\$1,333.74	\$1,647.02
War Tax -----	\$ 385.17	\$ 436.71
Net Postage -----	\$1,718.91	\$2,083.73
Number of new files made and indexed -----	1,775	1,696

Respectfully submitted,

W. T. AIKEN,
Chief Correspondence Clerk.

